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BUREAU OF FISHERIES

FISHERY INDUSTRIES OF THE UNITED STATES
1931

By R. H. FIEDLER

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R. P. LAMONT, Secretary
BUREAU OF FISHERIES
HENRY O'MALLEY, Commissioner

FISHERY INDUSTRIES OF THE UNITED STATES

1931

By R. H. FIEDLER

APPENDIX II TO REPORT OF COMMISSIONER OF FISHERIES FOR THE FISCAL YEAR 1932

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FISHERY INDUSTRIES OF THE UNITED STATES, 1931[1]

By R. H. Fiedler

Chief, Division of Fishery Industries

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[1] Appendix II to the Report of the U. S. Commissioner of Fisheries, 1932. Approved for publication May 19, 1932.

FOREWORD

This report constitutes a summary of the activities of the division of fishery industries as well as an annual review on fishery statistics of the United States. As its name indicates, this division of the bureau is concerned with the activities and welfare of the fishery industries, including the commercial fisheries, the trade in fishery products, and the fish canning and preserving industries. Its functions include the collection and publication of fishery statistics, the conducting of market surveys, the prosecution of research designed to solve the technical problems of the industry, and the dissemination of authoritative and practical information to the fishery industries and the public. Results of technological investigations and marketing studies are published in separate documents as each project is completed. The information obtained from statistical surveys is published in part 2 of this report, which includes all the detailed statistical information that has become available since the issuance of the previous report,[2] together with such summarized statements and interpretations of the statistics as are deemed significant and useful. In the preparation of this report, members of the division's staff have taken part and their assistance is appreciatively acknowledged.

Part 1. OPERATIONS OF THE DIVISION

COLLECTION OF STATISTICS

The statistical work of the division in 1931, as in former years, included the collection and dissemination of statistics on the catch of fishery products and the gear employed in making the catch, and statistics of related fishery industries. In the former group are statistics that are intended for the use of the fishery biologist, upon which to base conservation measures. They are also valuable for economic purposes. This is especially true of statistics of the landings of fish at principal fishing ports, which are published monthly. In the second group are statistics that are of use mainly for economic or trade purposes. These include statistics of the manufactured fishery products and by-products of the United States, cold-storage holdings of fish and amounts of fish frozen in the United States, marine-animal oil production, and similar statistics.

Continuing with the plan of making annual general statistical surveys of the fisheries of various geographical sections, the division in 1931 under the direction of F. F. Johnson canvassed the fisheries prosecuted in our entire coastal and lake sections, obtaining catch figures for 1930. The fisheries of the Mississippi River and its tributaries were not canvassed for 1930, but a survey is now in progress in which figures for 1931 are being obtained. Continuous annual catch figures are now available for the Great Lakes from 1913, Pacific Coast States from 1922, South Atlantic and Gulf States from 1927, New England States from 1928, and the Middle Atlantic and Chesapeake Bay States from 1929. While a complete canvass has not been made for the fisheries of the Mississippi River and tributaries since 1922, annual figures have been obtained on the catch of fresh-water mussels in this area since 1929 (about 50 per cent of the total yield of fishery products in the Mississippi Valley consists of mussel shells) and for Lakes Pepin and Keokuk since 1927.

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[2] Fishery Industries of the United States, 1930. By R. H. Fiedler, Appendix II to the Report of the U. S. Commissioner of Fisheries for 1931, pp. 109–552.

In addition to the general catch statistics, the collection and (or) publication of statistics on special subjects was continued during 1931, as follows: The landings of fish by American fishing vessels at the ports of Boston and Gloucester, Mass., Portland, Me., and Seattle, Wash.; landings of halibut at North Pacific coast ports (published monthly, and annual bulletins summarizing these landings for the year); catch of mackerel in the North Atlantic fishery; cold-storage holdings of frozen and cured fish and amount of fish frozen, which are furnished by the Bureau of Agricultural Economics (published monthly); production, consumption, and holdings of marine-animal oils of the United States and Alaska (published quarterly by the Bureau of the Census); production of manufactured fishery products and by-products of the United States and Alaska during 1931; the catch of shad in the Potomac and Hudson Rivers, and the catch of alewives in in the Potomac River during 1931; transactions on the sponge exchange at Tarpon Springs, Fla., during 1931; volume of fishery products handled at the municipal fish wharf and market, Washington, D. C., during 1931; and the volume of United States imports and exports of fishery products during 1931, furnished by the Bureau of Foreign and Domestic Commerce.

In the above surveys the division continued to receive cooperation from many of the State fishery agencies, which aided materially in the work. This, together with the use of automobiles by the agents for travel, has enabled the bureau to canvass the territory more expeditiously, efficiently, and economically.

STATISTICAL CONFERENCE

On February 19, 20, and 21, 1931, the division held its second conference with its statistical agents from all sections of the country at the headquarters of the bureau in Washington, D. C. This was for the purpose of acquainting the agents with new methods for collecting fishery statistics which are intended to show the scope of the diversified interests in the industry, and also to give the agents an opportunity to discuss and solve various perplexing problems relating to the work.

The morning session of the first day Commissioner O'Malley delivered an address of welcome, which was followed by an address on statistical research in the fisheries by the writer. The program for the remainder of that day and the next two days was devoted to general discussion of the work with Fred F. Johnson as chairman.

CATCH ANALYSIS, COLUMBIA RIVER CHINOOK-SALMON FISHERY

The statistical analysis of the records of daily catches of chinook salmon made by individual fishermen on the Columbia River was continued during 1931 by Joe A. Craig, director of the Seattle (Wash.) Laboratory. The data were treated statistically in order to determine the average catch per constant unit of effort and gear of chinook salmon on the Columbia River during the period from 1905 to 1930, inclusive.

From these data indices of abundance have been made, which indicates the relative abundance of chinook salmon in this river system from year to year and during short periods of time for each individual year. In this way not only the fluctuations in abundance of the entire population of chinook of the Columbia River have been followed from one year to the next, but also indices of abundance for portions of the migrating salmon population called "runs," which are probably biologically distinct and self-maintaining, have been computed.

The investigations of 1931 consisted of a detailed consideration of the data available, and show that from 1909 to 1925, inclusive, the chinook salmon of the Columbia River appeared to withstand the strain of fishing to which they were subjected without any noticeable decline in total numbers. However, from 1926 to 1930, the catch per unit of effort and gear, which is a measure of abundance, has declined noticeably. Also, it appears that certain of the "runs" or races are suffering a more pronounced decline in numbers than others.

TECHNOLOGICAL INVESTIGATIONS

It has been said that the application of science is useful to industry during booms, is indispensable when times are normal, and vital when they become hard. Possibly this applies to the fishing industry with greater force than to any other of our basic food industries. During the past year the fisheries have passed through a most trying period. Producers and wholesalers experienced difficulty in marketing fresh and canned fishery products. The market for fish meals and oils was depressed. Some of the important fisheries have shown signs of depletion, and competition with other food products has become keener. At times like these, in order to operate successfully, it is important that losses be minimized, and that the products available be utilized to the fullest extent. The technological research of the bureau has been aimed toward this end, and where the industry has applied the results of this research to its commercial procedure it has been benefited according to the effort expended. As a result, research by the bureau has shown ways for lengthening the life of certain types of textile fishing gear; various types of fishing gear have been developed which have a greater selectivity, thereby allowing small and immature fish to escape; methods have been developed for preventing rusting and shrinkage of frozen fish in cold storage, and undue losses and food value of fresh fish shipped with ice as a refrigerant; methods also have been developed for manufacturing fish meals and oils of higher nutritional value, and chemical and biochemical studies have demonstrated the richness of some fish, shellfish, and their products in protein, minerals, and vitamins. This work has had a stabilizing influence on the fisheries, and has enabled them to carry on in a more efficient and successful manner than would otherwise have been possible.

RESEARCH ASSOCIATE

In the above lines of technological research the bureau has attacked those fundamental problems which promise to be of greatest value to the largest number and which are possible with the funds and personnel available for the purpose. For this reason, the division has not been able to study special problems affecting certain products, processes, or methods. In order to serve the industry in this connection, the bureau by congressional authorization has provided research associate facilities whereby firms or groups having special technological problems to solve will furnish the investigator and pay his salary and expenses. The investigation is carried out in cooperation with the bureau's staff in its laboratories and under its control. This makes available to the industry laboratory, consultation, and library facilities which they are unable to obtain elsewhere.

During the past year, a manufacturer of marine products took advantage of these facilities and placed a chemist in the division's laboratory to make a study of the nutritive value of kelp meal.

LABORATORIES

During the past year the division carried on its technological research work under the direction of John Ruel Manning at laboratories in Washington, D. C., and Gloucester, Mass., and has provided equipment for a laboratory in the bureau's new building in Seattle, Wash. In addition, work was conducted in other laboratories as conditions warranted. For instance, certain cooperative biochemical studies were conducted at the laboratories of the South Carolina Food Research Commission, Charleston, S. C.; at the laboratory of the Bureau of Chemistry and Soils, United States Department of Agriculture, Washington, D. C.; and at experimental farms of the Department of Agriculture and the Ohio Agricultural Experiment Station. Research on the refrigerating, salting, and smoking of fish was conducted in the Virgin Islands and in Puerto Rico, and other investigations were conducted in the field where optimum working conditions obtained.

WASHINGTON, D. C.

With the transfer of the bureau's headquarters from Sixth and B Streets SW., to the new Department of Commerce Building, Washington, D. C., the division's technological laboratories in the old quarters were dismantled and moved to the new building. Chemical, nutritional, and mechanical investigations relative to fishery products are now being carried on in these laboratories.

GLOUCESTER, MASS.

During the year, the division completed the establishment of its technological research laboratory at Fort Square, Gloucester, Mass. This has been equipped to conduct various phases of fishery technological research, including refrigeration, smoking, bacteriology, by-products, and production methods.

The laboratory is located on the second floor of a building, along the water front facing Gloucester Harbor, and has wharf facilities on two sides. This is convenient as it enables the technologists to come into close contact with the fishing fleet operating out of this port. It also enables them to obtain laboratory samples, with which to experiment, directly from vessels as a large number of them land their fares at this wharf.

The laboratory was designed and equipped by the bureau's technologists and is particularly well adapted for fishery research. Practically all of the equipment was designed for specific purposes and is particularly adapted for the study of the problems for which it is intended.

In June of 1931, two of the technologists, from the Washington staff, were transferred to Gloucester to continue their activities in this laboratory. In addition to these, and the one previously assigned there, three new technologists were appointed, for assignment to this laboratory, to assist in the studies being conducted there. The staff of this laboratory also includes a clerk and an expert mechanic.

During this transfer of activities, from Washington to Gloucester, it was necessary for the study of some of the problems to be suspended for a period. These were resumed the latter part of the year, when the laboratory had been completely equipped with the necessary apparatus.

SEATTLE, WASH.

During 1931 the division provided equipment for a technological laboratory on the second floor of the bureau's new fisheries station on Lake Union in Seattle, Wash. It is planned to begin technological investigations there in 1932, when studies will be made on the manufacture of salmon body and liver oils.

NUTRITIVE VALUE OF MARINE PRODUCTS

NUTRITION LABORATORY

In the course of the bureau's investigative work it is necessary to determine the comparative food values of various fishery products, the relative efficiency of different processes of manufacture, methods for evaluating and comparing the products experimented with by its technologists, and the effects or changes on food values resulting from manufacturing by canning, curing, smoking, and freezing. Without means for accomplishing these things there would be no standard of comparison of results or means for evaluating products produced in different ways. Thus it became essential for the proper conduct of its work to make provisions for nutrition work. Cooperative arrangements with other agencies temporarily enabled the bureau to care for some of the more pressing problems having to do with commercial products. To promote the efficiency of the program of research of its own technologists and to standardize the products of industry the bureau has provided nutrition laboratory facilities and began experimental work in its own laboratory in Washington, D. C., in July, 1931. This has been one of the most important contributions made in recent years to the effectiveness of its own work and productive of beneficial results to industry.

BURBOT-LIVER OIL

Under a working arrangement with the Bureau of Chemistry and Soils, United States Department of Agriculture, as described in the 1929 and 1930 reports of this division, Dr. Chester D. Tolle, of the bureau, and Dr. E. M. Nelson and Dr. G. S. Jamieson, of the Bureau of Chemistry and Soils, completed an investigation concerning the chemical and physical properties and vitamin content of burbot-liver oil, in which it was shown that commercially produced burbot-liver oils were from four to ten times as potent in vitamin A and from three to four times as potent in vitamin D as medicinal cod-liver oil. It was also shown that these oils meet the United States Pharmacopœia X requirements for cod-liver oil with respect to specific gravity, iodine number, acid value, and unsaponifiable matter. The saponification values were approximately equal to the maximum permitted for cod-liver oil.

ANTIANEMIC PROPERTIES OF OYSTERS

Through a cooperative arrangement with the South Carolina Food Research Commission, Charleston, S. C., E. Jack Coulson, of the bureau has made a study in the laboratories of this commission of the antianemic properties of oysters. Samples of oysters were gathered from the most important oyster beds of the Atlantic and Gulf waters and analyzed for iron, copper, and manganese.

From this study it is possible to group the samples into three distinct groups: (1) North Atlantic, with high copper, low iron, and low manganese, (2) South Atlantic, with high iron, low copper, and low manganese, and (3) Gulf, with high iron, low copper, and high manganese. When the oysters from different localities were fed to anemic animals they all induced regeneration of hemoglobin. The response of hemoglobin regeneration was directly proportional to the amount of iron present, thus indicating that copper was not the controlling factor. This investigation demonstrates the importance of oysters as a source of iron in addition to their other food factors. It also was demonstrated that the ether-soluble material in oysters saponified with alcoholic potash carries appreciable quantities of vitamin D.

A great deal of interest has been shown in fish flour as a result of cooperative investigations in which this product forms a part of the diet for children. These investigations which started about May, 1931, are still in progress and, therefore, no definite report can be made at this time.

To correlate its laboratory studies on the nutritive value of fishery products with the actual feeding of these products to farm animals, the bureau is cooperating with the United States Department of Agriculture, Bureau of Animal Industry, Experimental Farm, Beltsville, Md., and the Ohio Agricultural Experiment Station, Wooster, Ohio, in extending its nutrition studies to farm animals, such as poultry, sheep, swine, cattle, etc.

KELP-MEAL EXPERIMENTS

A series of cooperative experiments with a producer of kelp meal have been conducted by Dr. H. P. Morris, a research associate, in the Washington laboratory to determine the nutritive value of kelp meal. One experiment of this series was conducted to learn the optimum level at which kelp meal can be fed as an addition to an otherwise complete diet composed of natural foodstuffs.

The additions of kelp meal were made to the diets of albino rats at levels of 3, 6, and 10 per cent. As a result it was found that no essential difference in response was observed for the rats at any of the levels studied. The amount of kelp meal included in the ration, therefore, is dependent upon the cost of this product. Another group of animals was fed kelp meal at levels of 15, 22½, and 30 per cent. These animals showed no ill effects from the injection of diets containing these levels of kelp meal, and the rats were not affected by the large quantities of salt that would be contained in these amounts of kelp meal.

Another experiment was conducted to determine the ability of kelp meal to stimulate appetite. According to results obtained it appears that kelp meal has a beneficial effect in increasing both growth and food consumption. If it can be shown that kelp meal will be an aid to production of animals for early market maturity it will make this product of considerable value in the field of animal industry especially in the production of such products as hothouse lambs, broilers, etc.

Another experiment was conducted to determine the vitamin A content of kelp meal. It was shown that this product contains about one-fourth as much of vitamin A as alfalfa hay, approximately the same amount of vitamin A as fresh eggs, and one and one-half times as much of this vitamin as yellow corn. It is thus seen that kelp meal is a fairly good vegetable source of vitamin A, but could not compete with cod-liver oil and other fish oils as a source of vitamin A for animal feeding.

Further experiments were designed to test the supplementary value of kelp meal when added to rations containing various protein supplements. The results obtained showed that kelp meal has a very favorable effect on growth when fed in diets composed principally of ground yellow corn and cottonseed meal. The extra growth resulting from the addition of kelp meal was not due to the sodium and potassium salts contained in the kelp since quantities of these salts similar to the amounts contained in kelp meal were added to the control diet. These experiments indicate that kelp meal has a very definite supplementing effect on diets composed of corn and cottonseed meal thereby increasing the rate of growth with less food consumption per unit gain in weight.

PRESERVATION OF FISHERY PRODUCTS FOR FOOD

IMPROVED METHODS FOR HANDLING OF FRESH AND FROZEN FISH

It is known that fish begins to deteriorate immediately following death and that certain definite chemical changes occur during this decomposition. These chemical changes are the same whether the fish is preserved by ice, in a frozen state, or without preservation. Studies of these chemical changes by James M. Lemon show that the rate of decomposition is determined by the degree of preservation, this being retarded by icing or freezing. With this in mind research was directed toward developing a chemical means for determining the condition of the flesh as to freshness, age, or stage of decomposition. The method developed proved successful in the laboratory but is quite complicated and requires technical skill for operation. However, this method is being simplified so that it may have commercial application.

IMPROVED METHODS FOR SMOKING FISH

In general commercial procedure it has been difficult to produce a uniform smoked fish product for the reason that no standards have been established for the methods involved or for the finished product. In order to assist the industry in this respect the division is conducting a study of the smoking of fish.

During the past year James M. Lemon designed and had constructed at the Gloucester Laboratory an experimental smokehouse and with the assistance of Maurice E. Stansby, conducted studies on the smoking of fish. The smokehouse is portable and is constructed to reduce the fire hazard to a minimum. The smoke is produced in the lower section by feeding sawdust onto an electric hot plate. This sawdust is fed automatically from a hopper onto the electric burner, where it is mechanically distributed over the surface to produce an even smoke. The volume of smoke can be controlled by adjusting the speed with which the sawdust is fed into the burner. A blower forces the smoke from the burner, through the upper section or smoking compartment, thence to an exhaust to the air outside. A draught regulator is attached to this system which makes it possible to produce as rapid circulation as may be desired.

The smoking compartment in which the fish are hung is heated by an electric heater, the temperature of which can be accurately controlled. This makes it possible to study the effect of different temperatures on the fish.

The humidity in the smoking compartment is controlled by means of a water spray. This may be employed to increase the amount of moisture present in the smoke. Circulation of the smoke in this compartment is accomplished by an agitator. A continuous record of the temperature and humidity of the smoking compartment can be kept by means of recording instruments.

It is possible to duplicate previous results by manipulating the controls regulating the volume of the smoke, temperature, and humidity. Application of this method to commercial procedure should remove much of the guesswork from the art of smoking and enable producers to manufacture a uniform product.

BACTERIOLOGICAL STUDIES

In the marketing of fresh fishery products and in their preservation by freezing, drying, salting, smoking, or canning various bacteriological changes take place which may hasten decomposition, contribute to preservation, or otherwise influence the manufacture of the finished product. These changes have received little attention by research workers with the result that losses in the fisheries, due to lack of knowledge of bacterial action, are enormous. In an effort to improve those processes or methods affected by bacteria the division established a bacteriological laboratory at its technological station in Gloucester, Mass. This research work during the past year was conducted by Francis P. Griffiths and has been concentrated upon determining the germicidal effect of smoke on fish and the nature of molds on smoked fish and their prevention. The bacteriology of fresh and frozen fish also has received attention. In this connection, it has been definitely shown that wounds produced in forking fish are fertile breeding grounds for bacteria.

PRESERVATION OF FISHERY PRODUCTS IN THE VIRGIN ISLANDS AND PUERTO RICO

The fisheries of the Virgin Islands and Puerto Rico are only slightly developed, and the inhabitants import considerable quantities of cured fishery products. After comprehensive economic surveys of these islands by Norman D. Jarvis and the writer it was determined that the quantity of fish caught locally could be increased, and that the market could be expanded (1) by building up the market for fresh fish through the introduction of improved methods of handling and the use of ice; (2) by the establishment of a local fish-curing industry to provide a home product to replace imported cured fish.

It was found that methods of handling were primitive and unsanitary and that the use of ice was almost unknown. For these reasons fish less than a day old are believed to have caused food poisoning and considerable quantities of fish have had to be thrown away through spoilage. Experimental studies by N. D. Jarvis on icing and handling fish indicated that fresh fish products superior to any then marketed could be prepared, with a greatly extended period of preservation, and that local fish could be cured successfully.

Series of experimental packs of dry-salt fish were prepared in both St. Thomas and Puerto Rico. A method was developed, based on previous studies by the bureau on the salting of fish, by which a product equal to any imported dry-salt fish can be prepared from fish caught locally around these islands. Data obtained indicate that this fish will not spoil readily. It was found possible to utilize almost all of the larger food fish in the preparation of dry-salt fish, but dry-salt barracuda was found to be the best all-around product.

The disposal of smaller food fish is a problem to the local fishermen and dealers. The study indicated that smoking might be utilized for the curing of these smaller fish, and a product prepared for which there would be more demand. Several lots of fish were smoked by a method suited to local conditions.

Instruction was given to fishermen and others in the islands for the proper handling and icing of fresh fish, the preparation of dry-salt fish, the construction of a smokehouse and the preparation of smoked fish, all of which should lead to placing the fishing industry on a sounder basis.

PRESERVATION OF FISHERY BY-PRODUCTS

In the fall of 1930, the bureau discontinued operation of its by-products laboratory at Reedville, Va., and installed larger and more complete equipment for by-products' studies as a part of the technological laboratory established at Gloucester, Mass. This move entailed the shipping of all equipment to Gloucester, the renovation of the new quarters, and the assembly and installation of the equipment shipped from Reedville as well as the assembly and installation of additional equipment for use in the new laboratory.

With the installation of the equipment in the Gloucester Laboratory, Roger W. Harrison assisted by Andrew W. Anderson and Samuel R. Pottinger initiated four major by-products investigations. These were: (1) A study of improved methods of manufacturing fish meal from nonoily fish waste, (2) a study designed to develop, from fillet waste, a fish flour which would be suitable for human consumption,

(3) a study of the chemical, physical, and biological constants of haddock-liver oil and, (4) a study designed to improve the technical usefulness of fish oils. Inasmuch as these investigations are studies of major importance and entail a great amount of experimental work over an extended period of time, it was not possible to bring any of them to completion during the few remaining months of the past year. Accordingly, the following may be considered only as a progress report of the work accomplished at the time of this writing.

IMPROVED METHODS FOR MANUFACTURING FISH MEAL FROM NONOILY FISH WASTE

The increasing interest in the use of fish meal as an animal feedstuff makes it highly desirable for the industry to manufacture fish meal of high quality. Fish offal or waste is a perishable material composed of complex inorganic and organic compounds. These latter materials are subject to change during the process of manufacture, and it is, therefore, essential to understand such changes so that those which tend to lower the quality of the products as an animal feed can be eliminated. For this reason, the scope of the investigations on methods of manufacturing fish meal includes studies to determine effect of: (1) Temperature, (2) length of drying time, (3) type of heating medium, and (4) method of applying heat on, (*a*) the nutritive value, (*b*) the chemical composition, and (*c*) the appearance of the product.

In order to carry on the work it has been necessary to: (1) Develop experimental apparatus, (2) conduct tests on such apparatus, (3) test samples for biological value, and (4) make chemical analysis of the finished products.

The preliminary results obtained to date, while not sufficient to warrant conclusions, indicate that both temperature and length of drying time have a noticeable effect upon the quality of the product. That is, high drying temperatures and long drying periods, within certain limits, detract from the nutritional value of the meal. Inasmuch as the elimination of one ordinarily results in the magnification of the other much remains to be done in determining optimum operating conditions. The study of type of heating mediums and methods of applying heat may be expected to aid in the solution of this problem. The biological tests are being carried on in cooperation with the Ohio Agricultural Experiment Station at Wooster, Ohio.

DEVELOPMENT OF FISH FLOUR SUITABLE FOR HUMAN CONSUMPTION

In the preparation of certain fish for market, as packaged products, a considerable quantity of material is accumulated which is suitable for human consumption. This material consists essentially of the backbones and the flesh adhering to them.

In view of recent studies in nutrition, this material constitutes an extremely valuable supplement to the human diet. Nutrition experts are showing the importance of certain mineral elements in the diet; and analysis of fish waste shows that these elements are found in relatively abundant proportion in this material ranging from 6 to 28 per cent of minerals. A flour prepared from the edible portion of fish trimmings, therefore, should prove a valuable food product.

The scope of the studies being made on the manufacture of this product include the development of a method of manufacture whereby: (1) The original nutritional value will be altered as little as possible, (2) the resultant product will stand up in color and taste during storage, and (3) the flour will lend itself to satisfactory inclusion in food recipes. Preliminary data indicate that these requisites can be realized more closely by an extremely rapid removal of moisture at relatively low temperatures.

The work accomplished during the latter part of the past year has consisted in the design and construction of an apparatus which will disperse the fish material in a drying medium in such a manner that extremely rapid drying can be effected. Preliminary studies on the nutritional value of this material have shown that different portions of the waste are more nutritious than others.

HADDOCK-LIVER OIL

The increasing catch of haddock in the New England ground-fish fishery has made it imperative that more be known concerning the chemical nature and biological value of haddock-liver oil. This is especially true since it is believed by some that the present specifications for cod-liver oil, as stated in the United States Pharmacopœia, place the producers of haddock-liver oil at a distinct disadvantage; although the intention of the Pharmacopœia is to permit the use of haddock-liver oil along with cod-liver oil. At the present time but a very small portion of the domestic supply of fish livers is converted into oil, and any stimulation toward increased production of domestic liver oil would be of considerable service to the fishing industry.

The scope of the investigation now under way includes a study of the oil rendered from livers removed from haddock taken on all the important fishing grounds during an entire year. The data which are being correlated consist of: (1) Date of catch, (2) location of fishing ground, (3) color of oil, (4) specific gravity, (5) refractive index, (6) free fatty acid content, (7) unsaponifiable matter, (8) saponification number, (9) iodine number, and (10) vitamin potency.

The data obtained up to the present writing show that haddock-liver oil is subject to considerable variation with regard to some of its physical and chemical properties. Further, on the basis of the trend of these data, which includes the period from September to December, some of these properties during the warmer seasons may be expected to fall beyond the limits of the Pharmacopœia.

IMPROVING THE TECHNICAL USEFULNESS OF DOMESTIC FISH OILS

One of the important problems facing the fish oil industry in this country is to find a better market for its output. In order to be of assistance to the fish oil industry in this connection, the bureau has undertaken a study to relieve this situation. The work on this problem at the present time is concerned with the natural variations in the properties of the oils from different sources; since one of the principal objections made by consumers of fish oils is their apparent lack of uniformity. On the basis of the data obtained it is hoped, as the first step, to be able to recommend when the various oils are most nearly fitted for the many uses which can be made of them.

NET PRESERVATION

As a result of the bureau's work on net preservation conducted by W. T. Conn a method of protecting heavy nets, such as traps, pounds, fykes, and seines, from deterioration has been developed. This makes use of toxic dyes applied to the thread or net. When these are used in connection with a specification coal tar, the tensile strength of exposed cable cotton has been extended beyond a degree previously thought possible. Specifically, tensile strength of 15-thread cable cotton, so preserved, increased constantly in all tests, during the season of greatest deterioration, between June and December. Crystal violet is considered the best dye for this service, but malachite green and thioflavine-S have proven only slightly inferior. Sources of supply of this dyed twine are now established and are available for prospective buyers.

A study of tars used for preserving nets has shown that many tars are of an inferior quality for net preservation. With the aid of the above test and through developmental work with tar it has been possible to prepare a tar which has maximum preservative qualities. Specifications for this net preservative tar have been drawn up, for the first time as far as known, and supplies of this specification coal tar certified for quality by the manufacturer are now available to fishermen.

While the above application prevents deterioration and preserves tensile strength, it does not entirely eliminate weed growth on the net. It is possible to retard this weed growth or fouling by adding certain copper compounds to the coal tar dip applied to dyed twine. The reduction of fouling, however, is effected at some sacrifice to tensile strength.

Studies also were continued on developing formulæ for preserving light nets such as gill nets, trammel nets, and the like. As a result of this the value of copper oleate and chicle as preservatives, as previously reported, were confirmed. In addition, tung and pine oils were found to have value as preservatives for light nets.

While certain preservatives have been efficacious in prolonging the life of light nets, an investigation on gill nets fished by a vessel out of Portland, Me., during the summer of 1931, has shown that many nets in this type of fishery deteriorate because of improper cleansing and storage. This deterioration can be retarded to a great extent by washing the net with lime water as soon as possible after each fish haul, and rinsing with clear water. The net should be removed from the reel as soon as dry, as direct sun rays injure the dry fabrics. A boxed damp net should never be covered, and when nets are to be stored they should be thoroughly cleansed, dried, and suspended in dry, well-ventilated shade.

Information obtained during research upon the preservation of fish nets indicates that the useful life of rope may be extended with comparatively little expenditure of time and money. It is possible that the toxic dye treatment described above for fish nets may be of value in this connection. However, it has been demonstrated by laboratory test that the dye must be applied to the hemp before the yarn is laid. Experiments in this direction have been made possible through cooperative research between this bureau and the Bureau of Construction and Repair, Navy Department. Preparation of test material is in progress at the naval rope factory at Boston, Mass., under personal direction of a technologist from this bureau.

MARKET AND INDUSTRIAL SURVEYS

Market and industrial surveys are made to supply the trade with useful market information regarding the distribution and consumption of fishery products and to supply descriptive and economic data on our fisheries and fishery industries.

SOME UNUSUAL MARKETS FOR FISH AND SHELLFISH

During 1931 surveys were made of the methods of several unusual markets for fish and shellfish by F. F. Johnson. These included commercial sport fishing in privately stocked waters, hot-fish shops, clambakes, oyster roasts, oyster suppers, fish frys, etc.

The survey of commercial sport fishing covered 40 firms which it is estimated comprise 80 per cent of such firms in the United States. In addition, it covered 19 hatchery firms who indicated their intentions of opening commercials pools. Some of these latter firms already have pools under construction. The investment in sport fishing waters and in hatcheries operated by sport fishing concerns exceeded $500,000 during the fiscal year ended September 30, 1931. The species used in these enterprises were usually rainbow and brook trout although some firms reported that cutthroat trout, black bass, and bullheads were used. About 322,000 pounds of fish were taken by some 29,000 sport fishermen during the year. Customary charges for fishing varied from 65 cents to $1 per pound of fish taken.

It is estimated that sales through the hot-fish shops of Great Britain account for nearly 70 per cent of the fish landed in the country. The closest semblance to this type of trade in the United States is the hot-fish business in and around St. Louis, Mo. More than one-fourth of the total supply of whiting taken in the fisheries of the Middle and North Atlantic coasts are used in this trade. They are frozen shortly after capture near the fishing centers and usually reach the St. Louis markets in carload lots. The study of the development of the hot-fish trade in the St. Louis area has suggested the possibility of similar activities in other cities.

Clambakes and oyster roasts are old American institutions which have been borrowed from our aboriginal predecessors and celebrated by all our generations much after the traditional fashion. A discussion of the methods of these functions has been deemed advisable due to the general lack of detailed information concerning them.

The full report of these marketing phases as well as of other unusual markets is contained in Fishery Circular No. 11 entitled "Some Unusual Markets for Fish and Shellfish." It may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C.

PUERTO RICO

Believing that the fishery resources of Puerto Rico were largely undeveloped and that methods for preserving and marketing fishery products in the island were inefficient, Gov. Theodore Roosevelt requested the Bureau of Fisheries to make an economic survey of the situation and to suggest procedures leading toward fuller development. In order to aid in this respect the bureau detailed N. D. Jarvis to undertake this work in cooperation with the Bureau of Commerce and Industry of Puerto Rico. The survey began on July 15 and was completed on November 19, 1931.

The results of the survey indicated that this belief was well founded. It was found that 87 per cent of all fishery products used was imported from other countries. The greater part of this was cod and other dry salt fish mostly from Nova Scotia and Newfoundland. The annual per capita consumption of fish is low as compared with near-by islands. This is about 14 pounds in the edible portion, as compared with a per capita consumption of 32 pounds in the near-by Virgin Islands. Fish are iced for shipment in only three localities. It is not the custom to use ice when retailing fish either while on display at retail stores and fish markets or in peddling in the streets and around the country.

Fish are not gutted, cleaned, or given anything approaching careful handling either by the fisherman or dealer. In addition, the native retail trade is reluctant to accept dressed fish. Gutting is believed to be a method of concealing inferiority. As a result much of the fish is stale, fresh fish is not sold in inland towns, and in comparatively small amounts along the coast. Consumption is decreased even where fish is available through fear of "fish poisoning." This is thought to be caused principally by eating stale or tainted fish.

While the catch may be increased somewhat on all sections of the coast, only two areas ar believed capable of producing catches much larger than those now taken. These are the grounds around the eastern and western ends of the island with Fajardo and Puerto Real as central points. These towns are even now the largest source of supply for San Juan, the principal market. Fish is shipped in metal-lined boxes by motor truck and is from four to nine hours on the road.

Sufficient supplies of raw material are apparently not available for the operation of a fish-reduction plant on a profitable basis.

Having concluded the market survey, the bureau's technologist remained on the island to develop methods for handling the catch. A résumé of this work is discussed on page 106 of this report.

PUBLICATIONS OF THE DIVISION

During the calendar year 1931 the following publications were prepared by members of the division. This list does not include the monthly statistical bulletins of the landings of fishery products at Boston and Gloucester, Mass., Portland, Me., and Seattle, Wash., nor the monthly reports on cold-storage holdings of frozen fish and quantities of fish frozen. The fishery documents, reports, and circulars may be purchased at the prices shown from the Superintendent of Documents, Government Printing Office, Washington, D. C. The statistical bulletins and special or S-memoranda are distributed free of charge upon request to the bureau. The special articles may be obtained from the sources of publication.

Those wishing to receive current copies of this report and statistical bulletins issued by the bureau should request that their names be placed on the bureaus' mailing lists No. 128 for the annual statistical report, 128a for general statistical bulletins, and 128b for monthly cold-storage reports. Those desiring historical statistical data on the domestic fisheries for the period 1880 to 1929 should consult the report entitled "Fishery Industries of the United States, 1930," by R. H. Fiedler, Appendix II to the Report of the U. S. Commissioner of Fisheries for the fiscal year 1931.

DOCUMENTS, REPORTS, AND CIRCULARS

COBB, JOHN N.
Pacific salmon fisheries. 8°, 293 pp., 48 figs. Fishery Document No. 1092. 65 cents.

CONN, W. T.
Application of preservatives to fishing nets. 8°, 6 pp., 5 figs. Fishery Economic Circular No. 74. 5 cents.

DANIEL, ESTHER PETERSON, and E. V. MCCOLLUM.
Studies on the nutritive value of fish meals. 8°, 19 pp., 6 figs. Fishery Investigational Report No. 2. 5 cents.

FIEDLER, R. H.
Fishery industries of the United States, 1930. Appendix II, Report of Commissioner, 1931. 8°, 444 pp., 21 figs. 80 cents.

HARRISON, ROGER W.
The menhaden industry. 8°, 113 pp., 30 figs. Fishery Investigational Report No. 1. 25 cents.
Market for marine animal oils in the United States. 8°, 78 pp., 17 figs. Fishery Investigational Report No. 7. 15 cents.

HARRISON, ROGER W., and S. R. POTTINGER.
Commercial production of menhaden fish oil for animal feeding. 8°, 11 pp., 1 table. Fishery Investigational Report No. 4. 5 cents.

LEMON, J. M.
Market for fresh oysters in fourteen cities of the United States. 8°, 25 pp., 6 figs. Fishery Circular No. 3. 10 cents.

LUCAS, CLARENCE R.
Review of the fish-farming industries of the United States. 8°, 16 pp., 7 figs. Fishery Circular No. 2. 5 cents.

MANNING, JOHN RUEL, E. M. NELSON, and CHESTER D. TOLLE.
Vitamin D in menhaden fish oil. 8°, 5 pp., 1 fig. Fishery Investigational Report No. 3. 5 cents.

SPECIAL ARTICLES

CONN, W. T.
Standard preservatives for fish nets. Commercial Standards Monthly. February, 1931. Washington.
Application of preservatives to fishing nets. Fish and Oyster Reporter. June, 1931. Tampa, Fla.
Net preservative research, 1926–1929. Technological Report No. 1, 1931. Available for reference only at the United States Bureau of Fisheries Library, Department of Commerce, Washington.
Net preservative research, 1930. Technological Report No. 2, 1931. Available for reference only at the United States Bureau of Fisheries Library, Department of Commerce, Washington.

FIEDLER, R. H.
Statistical research in the fisheries. Address before second statistical conference of the division of fishery industries. Washington, February 19, 1931. Published in United States Daily, March 26 and 27, 1931. Washington; Bureau of Fisheries Memorandum S–325, 1931. Washington.
Trade in fresh and frozen fishery products. Fish and Oyster Reporter. March, 1931. Tampa, Fla.
Fish supply of nation subject to investigation. Louisiana Conservation Review. May, 1931. New Orleans.
Progress in commercial fisheries. Address before Southern Fisheries Association. Jacksonville, Fla., June 10, 1930. Published in Fish and Oyster Reporter, June, 1930. Tampa, Fla.
The package fish trade. Fishing Gazette Annual Review number, June 15, 1931. New York.
How Federal bureau aids fishing industry. United States Daily, June 24, 1931. Washington. Louisiana Conservation Review, November, 1931. New Orleans.
Problems connected with freezing fish. United States Daily, June 25, 1931. Washington. Louisiana Conservation Review, October, 1931. New Orleans.
The growth of the packaged fish trade. Maryland Fisheries, No. 11, July, 1931. Baltimore.

Fogelberg, John M.

Deterioration of fish nets in fresh water. Technological Report No. 3, 1931. Available for reference only at the United States Bureau of Fisheries Library, Department of Commerce. Washington.

Harrison, Roger W.

Standards in the manufacture of fish meal. Commercial Standards Monthly, November, 1930. Washington.

Suggestions for storing fish oil. Fishing Gazette, January, 1931. New York.

Significance of recent rapid growth in whale oil production. Address before American Oil Chemists Society in Chicago, Ill., October 30, 1931. Published in Soap, November, 1931. New York. Bureau of Fisheries Special Memorandum 1721–23. Washington.

Jarvis, N. D.

The following articles were published in the Daily News at St. Thomas, Virgin Islands, 1931. Preservation of fish, June 19 and 22. Value of fish as food, June 24. Salting of fish, June 25. Smoking fish, June 27, Processes recommended for dry-salting fish in the Virgin Islands, July 13. Recommendations for handling fresh fish in the Virgin Islands, July 15.

The following articles were published in the Puerto Rico Progress, San Juan, Puerto Rico, 1931. Fisheries of Puerto Rico, August 27. Food value of fish, September 3.

The following articles were published in El Mundo (Spanish) San Juan, Puerto Rico, 1931. Problems affecting fisheries development in Puerto Rico, September 6. How to salt fish in Puerto Rico, October 29. How to build a smokehouse and smoke fish, November 1.

Observations on the fisheries of Puerto Rico. El Imparcial (Spanish), September, 1931. San Juan, Puerto Rico.

Johnson, F. F.

Compiling data on scope of fishing industry. United States Daily, September 12, 1931. Washington.

Statistics on production of canned fish. United States Daily, November 12, 1931. Washington.

Lemon, J. M.

Standards for refrigeration of fish. Commercial Standards Monthly, March, 1931. Washington. Ice and Refrigeration, April, 1931. Chicago. United States Daily, May 5, 1931. Washington.

Development of processes for preserving foods. United States Daily, November 13, 1931. Washington.

Manning, John Ruel.

Fish meal for poultry feeding. Poultry Success, January, 1931. Springfield, Ohio.

Seafoods yield iodine essential to balanced diet. Louisiana Conservation Review, January, 1931. New Orleans.

New dietary standards developed. Commercial Standards Monthly, January, 1931. Washington. Flour and Feed, February, 1931. Milwaukee.

Marine products in our national dietary. Address before District of Columbia Medical Society, Washington, D. C., March 11, 1931. Published in Bulletin of Medical Society of the District of Columbia, July, 1931. Washington. Bureau of Fisheries Special Memorandum 2468, Washington. Fish and Oyster Reporter, May, 1931. Tampa, Fla.

Seafood more important in diet as soil minerals are depleted. United States Daily, March 17, 1931. Washington.

Seafood said to furnish iodine in palatable form. United States Daily, March 21, 1931. Washington.

Discussion on diet and dentition. Address before the District of Columbia Dental Society, Washington, D. C. Published in the Dental Cosmos, April, 1931. Philadelphia.

Marine products a source of iodine. Flour and Feed, May, 1931. Milwaukee. The place of marine products in animal nutrition. Feedstuffs, May 30, 1931. Minneapolis.

Manufacture and uses of marine products with relation to animal nutrition. Address before American Feed Manufacturers' Association, French Lick Springs, Ind., June 5, 1931. Published in Feed Bag, June, 1931. Milwaukee. Feedstuffs, June 6, 1931. Minneapolis. Flour and Feed, July, 1931. Milwaukee. Bureau of Fisheries Special Memorandum 2255A. 1931. Washington.

Manning, John Ruel—Continued.

Analyzing food value of fishery products. United States Daily, September 14, 1931. Washington.

The relation of public institutions to public health and child welfare. Radio address over station WRC, Washington, D. C., October 12, 1931. Bureau of Fisheries Special Memorandum 2482, 1931. Washington.

Tolle, Chester D.

Discussion on diet and dentition. Address before District of Columbia Dental Society, Washington, D. C. Published in The Dental Cosmos, April, 1931. Philadelphia.

Tolle, Chester D., and E. M. Nelson.

Salmon oil and canned salmon as sources of vitamins A and D. Address before Division of Biological Chemistry, American Chemical Society, Indianapolis, Ind., April 1, 1931. Published in Industrial and Engineering Chemistry, September, 1931. Washington.

STATISTICAL BULLETINS

Fisheries of the New England States, 1929. Statistical Bulletin No. 926.

Fisheries of the Middle Atlantic States, 1929. Statistical Bulletin No. 923.

Fisheries of the Chesapeake Bay States, 1929. Statistical Bulletin No. 908.

Fisheries of the South Atlantic and Gulf States, 1929. Statistical Bulletin No. 925.

Fisheries of the Pacific Coast States, 1929. Statistical Bulletin No. 930.

Lake fisheries, 1929. Statistical Bulletin No. 933.

Fisheries of the United States and Alaska, 1929. Statistical Bulletin No. 928.

Production of cured fishery products in the marine and lake sections of the United States and Alaska, 1929. Statistical Bulletin No. 932.

Canned fishery products and by-products of the United States and Alaska, 1930. Statistical Bulletin No. 927.

Production of fresh, frozen, and smoked packaged fishery products in the United States, 1930. Statistical Bulletin No. 924.

Fishery products frozen and cold-storage holdings of frozen and cured fishery products in the United States and Alaska, 1930. Statistical Bulletin No. 920.

Fisheries of Alaska, 1930. Statistical Bulletin No. 922.

Landings by fishing vessels at principal New England ports, 1930. By months. Statistical Bulletin No. 911.

Landings by fishing vessels at the three principal New England ports, 1930. By gear and fishing grounds. Statistical Bulletin No. 912.

Fishery products landed by United States vessels at Seattle, Wash., 1930. By banks. Statistical Bulletin No. 913.

Part 2. FISHERY STATISTICS [3]

REVIEW, 1930

GENERAL

The catch of fishery products in the United States and Alaska during 1930 was slightly less than in the previous year. The value of the catch also decreased as compared with 1929. The value of the output of canned fishery products and by-products in 1930 decreased as did the production of packaged fish. The output of cured fishery products increased slightly in quantity in 1930 as compared with the previous year but decreased in value. The production of frozen fish increased over 1929, and both imports and exports of fishery products decreased as compared with 1929.

During 1930, the domestic fisheries employed about 120,000 persons as fishermen, 4,500 on transporting craft, and about 86,000 were engaged in the wholesale and manufacturing industries, a total of 204,000 persons, exclusive of duplication. The catch amounted to 3,286,580,000 pounds, valued at $109,349,000.

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[3] With reference to the figures published in part 2 the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

In 1930, in the marine and lake sections of the United States and Alaska, the production of canned fishery products amounted to 577,783,000 pounds, valued at $83,015,000; and the output of by-products was valued at $19,560,000. The production of fresh and frozen packaged fishery products amounted to 157,378,000 pounds, valued at $28,996,000. The production of cured fishery products amounted to 124,497,000 pounds, valued at $16,837,000. The pack of frozen fishery products in the entire United States and Alaska amounted to 139,297,000 pounds, estimated to be valued at $16,500,000. In addition, it is estimated that $5,000,000 worth of fishery products were cured or manufactured into by-products in the Mississippi River and tributaries section during 1930—making the total value of all manufactured products in the entire United States and Alaska in 1930 about $170,000,000.

Fishery products imported for consumption were valued at $50,830,000, while domestic exports were valued at $17,276,000.

NEW ENGLAND STATES

The most recent general statistics of these States, which are for 1930, show that the catch exceeded that in any year for which there are records, although the value of the catch was exceeded in 1929. The catch increased 1 per cent in quantity and decreased 5 per cent in value as compared with the catch and its value in the previous year. Larger catches of ground fish offset the considerable decrease in sea herring and mackerel. Landings of fish at Boston, Gloucester, and Portland were the largest on record during 1930, although the value of these fish was somewhat less than in the previous year.

The output of packaged fish registered a decline of 7 per cent as compared with that in 1929. The frozen fish trade shows a considerable increase in 1930 over the previous year. The production of sardines, which is the principal fish-canning industry in this section and is centered in Maine, showed a large decrease as compared with the previous year. The cured-fish industry decreased in volume as compared with 1929.

MIDDLE ATLANTIC STATES

The catch of fishery products of the Middle Atlantic States in 1930 exceeded that in any year for which there are records. The value of the catch was slightly less than in 1929, the largest on record. The increased catch is due largely to the increase in volume of menhaden and alewives, while the decrease in value is due mainly to a smaller production in the oyster industry.

Landings of fish at New York City and Groton, Conn., which consisted largely of haddock, flounders, cod, mackerel, and tilefish, decreased considerably as compared with 1929. The packaged fish-trade decreased also, as did the trade in frozen fish. The catch of shad in the Hudson River increased slightly over 1929. The production of cured fish showed a considerable increase over the previous year.

CHESAPEAKE BAY STATES

In 1930, the catch of fishery products of the Chesapeake Bay States exceeded that in the previous year. The value of the catch was slightly less. However, the catch was the smallest on record since 1888, with the exception of 1929. The decline in the volume of the menhaden catch has been largely responsible for this decrease in the total catch. The catch of shad in the Potomac River during 1930 was much less than that in 1929, but the catch of alewives increased slightly. The production of packaged fish was about the same as in 1929. The production of cured fish was considerably larger than during the previous year. The value of the production of menhaden products in 1930 was approximately the same as that in 1929.

SOUTH ATLANTIC AND GULF STATES

Statistics of the fisheries of the South Atlantic and Gulf States for 1930 show a considerable decrease in the catch of fishery products and the value of the catch as compared with the previous year. This is due largely to decreases in the volume of the catch of menhaden, oysters, and shrimp. There was a considerable increase in the production of packaged fishery products as compared with 1929. The production of cured fishery products also was greater than during the previous year.

There were decreases in the production of canned oysters and shrimp as well as menhaden products. The manufacture of each of these products is an important industry in this section.

PACIFIC COAST STATES

Statistics of the fisheries of the Pacific Coast States for 1930 show a decrease in the catch of fishery products and the value of the catch as compared with the previous year. This is due mainly to decreases in the volume of the catch of pilchards and salmon. The production of frozen fishery products was greater in 1930 than in 1929. The pack of cured fish decreased in 1930 as compared with the previous year. There was a decrease of 35 per cent in the pack of salmon in 1930 as compared with 1929, due to the smaller pack of humpback or pink salmon, as 1930 was the "off year" for these species. Compared with the pack in 1928, the previous "off year," there was an increase of 25 per cent in the pack. There was a decrease in the pack of sardines in 1930, but an increase of 34 per cent in the pack of tuna and tunalike fishes as compared with 1929. The landings of the halibut fleet in 1930 decreased somewhat from those in the previous year.

LAKE FISHERIES

The United States fisheries prosecuted in the Great Lakes and the International Lakes of northern Minnesota show an increase in the volume of the catch in 1930 as compared with the previous year, and a slight decrease in the value of the catch. A large increase in the catch of blue pike was responsible mainly for the increase in the catch. Beginning in 1929, a revised statistical procedure was used, incorporating the inclusion of certain products not canvassed in recent surveys, and a change in the methods of collecting statistics in some of the States. The catch of cisco, although much greater than in 1929, is still far below the volume once attained as an important product of the fisheries of Lake Erie. The production of cured fishery products increased as compared with 1929.

MISSISSIPPI RIVER AND TRIBUTARIES

No general survey of the fisheries of Mississippi region has been made since 1922, and therefore no recent trend can be determined. The yield of fresh-water mussels, which contributed approximately one-half to the total weight of the catch in 1922, shows an increase in 1930, not only over the production of 1922, but also that of 1929. The fisheries of Lake Pepin and Keokuk decreased in volume and value as compared with the previous year, but the catch and its value in the Mississippi River between these two lakes increased in 1930.

ALASKA

The catch of fishery products of Alaska in 1930 was somewhat less than during the previous year, and the value of the catch was considerably less. There was a decrease in the pack of salmon amounting to 6 per cent as compared with the pack in 1929. The catch of herring as well as that of halibut was somewhat less than in the previous year. There was an increase in the frozen fish and cured fish production over 1929.

Fisheries of the United States and Alaska, 1930 [1]

SUMMARY OF CATCH: BY SECTIONS

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Product	New England		Middle Atlantic		Chesapeake		South Atlantic and Gulf		Pacific	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Fish	645, 574	19, 232	131, 638	3, 588	199, 327	4, 391	301, 218	5, 278	806, 754	21, 303
Shellfish, etc	55, 777	8, 261	62, 230	9, 476	117, 066	7, 081	116, 541	5, 787	22, 790	1, 594
Whale products									3, 844	167
Total	701, 351	27, 493	193, 868	13, 064	316, 393	11, 472	417, 759	11, 065	833, 388	23, 064

Product	Lakes		Mississippi River and tributaries		Alaska		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Fish	89, 612	5, 875	53, 466	3, 310	609, 305	12, 178	2, 836, 894	75, 155
Shellfish, etc	5, 336	175	54, 705	1, 075	1, 980	108	436, 425	33, 557
Whale products					9, 417	470	13, 261	637
Total	94, 948	6, 050	108, 171	4, 385	620, 702	12, 756	3, 286, 580	109, 349

[1] All figures are for 1930, except those for the Mississippi River and tributaries. In this section the figures on the catch of mussels are for 1930 and other figures are for 1922.

Fisheries of the United States and Alaska, 1930—Continued

OPERATING UNITS: BY SECTIONS

Item	New England	Middle Atlantic	Chesapeake	South Atlantic and Gulf [2]
Fishermen:	*Number*	*Number*	*Number*	*Number*
On vessels	6, 192	4, 665	2, 579	3, 454
On boats and shore	10, 885	5, 940	16, 812	20, 136
Total	17, 077	10, 605	19, 391	23, 590
Vessels:				
Steam	64	15	25	3
Net tonnage	9, 033	1, 940	2, 902	166
Motor	649	463	87	589
Net tonnage	18, 583	6, 998	1, 453	9, 255
Sail	5	97	279	78
Net tonnage	50	2, 306	3, 015	1, 224
Total vessels	718	575	391	670
Total net tonnage	27, 666	11, 244	7, 370	10, 645
Boats:				
Motor	4, 688	2, 014	8, 217	5, 950
Other	4, 099	2, 036	5, 603	8, 565
Apparatus:				
Haul seines	147	341	375	1, 211
Purse seines	185	37	49	78
Otter trawls (including all types and sizes)	565	180	12	2, 306
Gill nets	13, 524	3, 570	19, 989	18, 100
Trammel nets	----------	----------	----------	449
Pound nets, trap nets, and weirs	542	758	2, 954	2, 399
Stop nets	----------	87	6	----------
Fyke nets	258	4, 534	3, 472	3, 976
Bag nets and pocket nets	182	----------	----------	----------
Other nets [4]	235	359	2, 108	2, 420
Hooks, baits, or snoods	4, 686, 790	794, 602	1, 642, 961	358, 692
Fish wheels	----------	----------	----------	50
Eel pots and traps	5, 045	10, 465	13, 292	1, 592
Lobster pots	332, 791	51, 946	----------	----------
Crab and crawfish pots, traps, drags, etc	3, 530	58	----------	3, 946
Clam dredges	84	82	----------	73
Crab dredges	----------	53	102	80
Mussel dredges	----------	8	----------	----------
Oyster dredges	300	674	966	720
Scallop dredges and drags	3, 522	1, 219	924	330
Crab scrapes	----------	----------	1, 850	----------
Tongs, rakes, hoes, forks, grabs, etc	4, 443	3, 230	11, 236	3, 836
Sponge apparatus	----------	----------	----------	338
Other apparatus [6]	2, 442	259	18	2, 942

Item	Pacific	Lakes	Mississippi River and tributaries	Alaska	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	6, 165	1, 660	----------	[3] 10, 189	34, 904
On boats and shore	13, 409	5, 320	12, 310	----------	84, 812
Total	19, 574	6, 980	12, 310	10, 189	119, 716
Vessels:					
Steam	6	107	----------	8	228
Net tonnage	182	2, 374	----------	617	17, 214
Motor	849	360	----------	682	3, 679
Net tonnage	21, 609	3, 726	----------	11, 608	73, 232
Sail	8	----------	----------	----------	467
Net tonnage	3, 140	----------	----------	----------	9, 735
Total vessels	863	467	----------	690	4, 374
Total net tonnage	24, 931	6, 100	----------	12, 225	100, 181

[2] Includes the operating units used in the fisheries of Lake Okeechobee, Fla.

[3] Includes persons in boat and shore fisheries.

[4] Includes dip nets, cast nets, scap nets, reef nets, and other minor nets.

[6] Includes box traps, wire baskets, harpoons, spears, gaffs, crab and crawfish hooks, periwinkle and cockle pots, and other apparatus not included in "Other nets."

Fisheries of the United States and Alaska, 1930—Continued

OPERATING UNITS: BY SECTIONS—Continued

Item	Pacific	Lakes	Mississippi River and tributaries	Alaska	Total
Boats:	*Number*	*Number*	*Number*	*Number*	*Number*
Motor	5, 942	2, 215	4, 597	1, 814	35, 437
Other	1, 614	1, 664	10, 941	3, 439	37, 961
Apparatus:					
Haul seines	212	243	708	189	3, 426
Purse seines	395			703	1, 447
Lampara nets	241				241
Otter trawls (including all types and sizes)					3, 063
Beam trawls	55			9	64
Paranzella nets	16				16
Gill nets	5, 108	93, 542	866	5, 290	159, 989
Trammel nets	61	94	459		1, 063
Pound nets, trap nets, and weirs	670	7, 947	11	708	15, 989
Stop nets					93
Fyke nets	2, 102	2, 515	49, 652		66, 509
Bag nets and pocket nets	69				251
Other nets [4]	389	27			5, 538
Hooks, baits, or snoods	1, 196, 533	828, 571	(5)	(5)	9, 508, 149
Fish wheels	39			266	355
Eel pots and traps					30, 394
Lobster pots					384, 737
Shrimp nets and traps			4, 360		4, 360
Crab and crawfish pots, traps, drags, etc	18, 634	5, 418		620	32, 206
Clam dredges					239
Crab dredges					235
Mussel dredges					8
Oyster dredges					2, 660
Scallop dredges and drags					5, 995
Crab scrapes					1, 850
Tongs, rakes, hoes, forks, grabs, etc	3, 479	804	1, 810		28, 838
Crowfoot bars (pairs)		285	3, 490		3, 775
Abalone outfits	13				13
Sponge apparatus					338
Other apparatus [6]	4, 592		(5)		10, 253

CATCH: BY SECTIONS [7]

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	New England		Middle Atlantic		Chesapeake		South Atlantic and Gulf [8]		Pacific	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH										
Alewives	4, 106	37	5, 292	36	21, 128	268	10, 207	74		
Amberjack							21	1		
Anchovies									320	4
Barracuda									4, 764	379
Black bass					19	3	440	47		
Bluefish	705	83	3, 814	393	498	42	2, 038	110		
Blue runner or hardtail							756	14		
Bonito	140	11	417	27	49	3	20	(9)		
Bowfin							19	1		
Buffalofish							116	6		
Butterfish	1, 905	140	3, 137	237	4, 291	201	183	4		
Cabio or crab-eater					(9)	(9)	14	1		
Cabrilla									510	27
Carp	21	2	358	45	469	34	470	32	284	8

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[4] Includes dip nets, cast nets, scap nets, reef nets, and other minor nets.
[5] Number not determined.
[6] Includes box traps, wire baskets, harpoons, spears, gaffs, crab and crawfish hooks, periwinkle and cockle pots, and other apparatus not included in "Other nets."
[7] Salt fish have been converted to the basis of round weight.
[8] Includes the catch of fish taken in Lake Okeechobee, Fla.
[9] Less than 500 pounds or $500.

NOTE.—Whaling apparatus, the number of which was not determined, was used in the Pacific Coast States and Alaska.

Fisheries of the United States and Alaska, 1930—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	New England		Middle Atlantic		Chesapeake		South Atlantic and Gulf		Pacific	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH—continued										
Catfish and bullheads	118	3	94	10	807	35	5, 376	237	433	58
Cero			20	2			19	1		
Cigarfish							58	2		
Cod	101, 632	3, 043	10, 679	335	50	1	1	(9)	19, 236	302
Crappie							900	34		
Crevalle							103	3		
Croaker	151	6	2, 890	87	22, 022	525	5, 270	82		
Cunner	106	3								
Cusk	6, 140	133	8	(9)						
Dolly Varden trout									2	(9)
Dolphin	(9)	(9)	1	(9)			5	1		
Drum:										
Black			7	(9)	64	1	1, 287	43		
Red or redfish			65	12	52	2	2, 616	148		
Eels	1, 355	132	1, 272	147	389	34	159	12	(9)	(9)
Flounders	49, 166	1, 863	9, 559	374	662	31	696	44	13, 415	846
Flyingfish									48	2
Frigate mackerel	385	18								
Garfish							1	(9)		
Gizzard shad			1	(9)	168	4	39	1		
Goldfish					13	1				
Goosefish	(9)	(9)	38	1						
Grayfish	93	3	13	(9)					1, 018	13
Groupers							3, 346	101		
Grunts			(9)	(9)			48	2		
Haddock	264, 549	8, 531	2, 574	77						
Hagfish			7	(9)						
Hake	32, 206	557	366	6	1	(9)			56	1
Halfmoon									37	3
Halibut	3, 167	497	5	1					13, 546	1, 631
Hardhead									39	5
Harvestfish or "starfish"					(9)	(9)	343	10		
Herring, sea	82, 901	503	692	7					1, 377	13
Hickory shad	4	(9)			90	3	387	17		
Hogfish							2	(9)		
Horse mackerel									369	11
Jewfish							44	1		
Kingfish (California)									457	11
Kingfish or "king mackerel"							3, 689	175		
King whiting or "kingfish"	(9)	(9)	86	9	5	(9)	583	24		
Launce	183	4								
"Lingcod"									2, 503	98
Mackerel	50, 701	1, 768	1, 120	46	49	5			16, 531	242
Menhaden	1, 708	17	52, 478	368	115, 842	767	199, 167	806		
Minnows	36	4	166	5						
Mojarro							81	3		
Mullet	8	(9)	65	4	115	5	28, 021	910	21	2
Mummichog	7	1	126	9						
Muttonfish							225	15		
Paddlefish							2	(9)		
Permit							15	(9)		
Pigfish					69	3	157	3		
Pike or pickerel	(9)	(9)	1	(9)	11	2	10	1		
Pilchard									494, 451	2, 377
Pilotfish			2	(9)						
Pinfish							112	2		
Pollock	17, 820	306	114	3						
Pompano					2	(9)	602	117	2	1
Porgies							56	2		
Porkfish							1	(9)		
Rock bass									508	32
Rockfishes									7, 969	309
Rosefish	117	2	1	(9)						
Sablefish									4, 332	182

[9] Less than 500 pounds or $500.

Fisheries of the United States and Alaska, 1930—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	New England		Middle Atlantic		Chesapeake		South Atlantic and Gulf		Pacific	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH—continued										
Salmon:										
Atlantic	88	27								
Blueback, red or sockeye									25, 103	2, 404
Chinook or king									37, 843	4, 153
Chum or keta									12, 668	117
Humpback or pink									272	8
Silver or coho									23, 729	1, 299
Sculpin									90	9
Scup	2, 723	118	8, 681	217	464	23				
Sea bass	192	14	3, 886	161	212	16	442	29	394	20
Sea bass, white (California)									1, 626	144
Sea robin	235	3	132	2	1	(9)				
Shad	201	16	450	82	7, 181	1, 139	2, 541	426	3, 043	82
Sharks	103	2	177	4			2, 497	5		
Sheepshead, salt-water							1, 077	41	244	9
Silversides			260	12						
Skates	1, 016	10	269	5	3	(9)	1	(9)	288	6
Skipper	6	1								
Smelt	796	141	3	1					3, 392	117
Snapper:										
Mangrove							125	5		
Red			4	(9)			7, 113	595		
Snook							408	14		
Spadefish							50	1		
Spanish mackerel			16	1	58	7	6, 355	311	43	2
Spearfish	(9)	(9)								
Split-tail									19	1
Spot			693	31	2, 619	132	2, 521	44		
Squawfish									5	(9)
Squeteagues or "sea trout":										
Gray	186	19	13, 272	466	19, 266	753	3, 396	142		
Spotted	1	(9)			202	24	5, 206	443		
Squirrelfish							1	(9)		
Steelhead trout									3, 954	331
Striped bass	89	17	205	40	1, 653	271	457	61	882	92
Sturgeon and sturgeon roe	9	1	22	9	5	1	32	6	142	6
Suckers	113	8	79	8			16	1	2	(9)
Sunfish			2	(9)			443	13		
Surf fishes									371	15
Swordfish	5, 135	876	234	38					563	75
Tautog	555	32	338	15	1	(9)				
Tenpounder							191	6		
Thimble-eyed mackerel			36	1						
Tilefish	1, 783	97	2, 312	89						
Tomcod	74	1	121	5	(9)	(9)			23	1
Tripletail							13	1		
Tuna and tunalike fishes:										
Albacore									286	24
Bluefin									21, 921	1, 238
Bonito									5, 164	167
Skipjack or striped									20, 486	790
Yellowfin									56, 654	3, 396
Horse mackerel	274	15	148	7						
Turbot							1	(9)		
Whitebait			96	7					179	12
Whitefish									225	13
White perch	50	5	380	56	616	41	442	33		
Whiting	9, 863	108	4, 113	70	27	1				
Wolffish	2, 651	54	6	(9)						

[9] Less than 500 pounds or $500.

Fisheries of the United States and Alaska, 1930—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	New England		Middle Atlantic		Chesapeake		South Atlantic and Gulf		Pacific	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH—continued										
Yellow perch	1	(9)	232	20	154	13	96	7	--------	--------
Yellowtail	--------	--------	3	(9)	--------	--------	89	7	4, 771	210
Miscellaneous fish	--------	--------	--------	--------	--------	--------	--------	--------	144	5
Total	645, 574	19, 232	131, 638	3, 588	199, 327	4, 391	301, 218	5, 278	806, 754	21, 303
SHELLFISH, ETC.										
Abalone	--------	--------	--------	--------	--------	--------	--------	--------	647	130
Clams:										
Cockle	29	5	--------	--------	--------	--------	--------	--------	30	10
Hard	3, 822	858	2, 577	1, 055	1, 294	432	1, 042	89	515	38
Pismo	--------	--------	--------	--------	--------	--------	--------	--------	22	10
Razor	380	20	3	1	--------	--------	--------	--------	838	159
Soft	13, 299	644	1, 131	158	--------	--------	--------	--------	62	11
Surf	38	4	423	50	--------	--------	--------	--------	--------	--------
Mixed	--------	--------	--------	--------	--------	--------	--------	--------	5	1
Conchs	--------	--------	35	3	--------	--------	20	(9)	--------	--------
Crabs:										
Hard	1, 952	129	417	29	60, 565	1, 072	6, 493	105	4, 540	399
King	--------	--------	6, 184	29	--------	--------	--------	--------	--------	--------
Rock	--------	--------	1	(9)	--------	--------	--------	--------	--------	--------
Soft	--------	--------	135	22	8, 194	650	531	117	--------	--------
Stone	--------	--------	--------	--------	--------	--------	308	27	--------	--------
Crawfish	--------	--------	--------	--------	--------	--------	--------	--------	177	18
Lobsters:										
Common	12, 357	3, 218	1, 559	369	--------	--------	--------	--------	--------	--------
Spiny	--------	--------	--------	--------	--------	--------	288	27	1, 394	263
Mussels, sea	11	2	295	14	--------	--------	--------	--------	(9)	(9)
Octopus	--------	--------	--------	--------	--------	--------	4	(9)	163	11
Oysters:										
Eastern, market, public	46	11	342	45	21, 648	2, 569	13, 341	835	--------	--------
Eastern, market, private	9, 386	1, 736	21, 175	4, 032	15, 076	1, 783	5, 243	581	75	31
Eastern, seed, public	1, 362	168	19, 773	2, 520	8, 235	417	--------	--------	--------	--------
Eastern, seed, private	4, 685	682	4, 037	554	--------	--------	--------	--------	--------	--------
Western, market	--------	--------	--------	--------	--------	--------	--------	--------	316	259
Japanese, market	--------	--------	--------	--------	--------	--------	--------	--------	228	83
Periwinkle	330	39	--------	--------	--------	--------	--------	--------	--------	--------
Scallops:										
Bay	1, 529	437	397	115	1, 825	148	454	56	12	4
Sea	947	186	1, 503	264	--------	--------	--------	--------	--------	--------
Shrimp	5	4	341	29	--------	--------	88, 117	2, 995	2, 785	49
Squid	5, 506	112	1, 773	55	225	8	--------	--------	10, 980	118
Terrapin	--------	--------	6	7	2	2	67	21	(9)	(9)
Turtles	--------	--------	11	1	2	(9)	84	3	1	(9)
Irish moss	93	6	--------	--------	--------	--------	--------	--------	--------	--------
Sponges	--------	--------	--------	--------	--------	--------	549	931	--------	--------
Bloodworms	--------	--------	54	63	--------	--------	--------	--------	--------	--------
Sandworms	--------	--------	58	61	--------	--------	--------	--------	--------	--------
Total	55, 777	8, 261	62, 230	9, 476	117, 066	7, 081	116, 541	5, 787	22, 790	1, 594
WHALE PRODUCTS [10]										
Oil, whale	--------	--------	--------	--------	--------	--------	--------	--------	3, 844	167
Total	--------	--------	--------	--------	--------	--------	--------	--------	3, 844	167
Grand total	701, 351	27, 493	193, 868	13, 064	316, 393	11, 472	417, 759	11, 065	833, 388	23, 064

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[9] Less than 500 pounds or $500.

[10] The weight of whales caught was not determined; therefore, the weight of the manufactured product is shown.

Fisheries of the United States and Alaska, 1930—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	Lakes		Mississippi River and tributaries		Alaska		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH								
Alewives							40, 733	415
Amberjack							21	1
Anchovies							320	4
Barracuda							4, 764	379
Black bass			74	11			533	61
Bluefish							7, 055	628
Blue pike	11, 823	568					11, 823	568
Blue runner or hardtail							756	14
Bonito							626	41
Bowfin	19	(9)	190	6			228	7
Buffalofish	1	(9)	17, 267	1, 014			17, 384	1, 020
Butterfish							9, 516	582
Burbot	642	17					642	17
Cabio or crab-eater							14	1
Cabrilla							510	27
Carp	3, 293	106	18, 338	872			23, 233	1, 099
Catfish and bullheads	641	43	8, 093	714			15, 562	1, 100
Cero							39	3
Chubs	6, 162	469					6, 162	469
Cigarfish							58	2
Cisco	347	40					347	40
Cod					914	6	132, 512	3, 687
Crappie	4	1	512	49			1, 416	84
Crevalle							103	3
Croaker							30, 333	700
Cunner							106	3
Cusk							6, 148	133
Dolly Varden trout					92	9	94	9
Dolphin							6	1
Drum:								
Black							1, 358	44
Red or redfish							2, 733	162
Eels	5	(9)	16	1			3, 196	326
Flounders					327	8	73, 825	3, 166
Flyingfish							48	2
Frigate mackerel							385	18
Garfish							1	(9)
Gizzard shad							208	5
Goldeye	(9)	(9)					(9)	(9)
Goldfish	64	1					77	2
Goosefish							38	1
Grayfish							1, 124	16
Groupers							3, 346	101
Grunts							48	2
Haddock							267, 123	8, 608
Hagfish							7	(9)
Hake							32, 629	564
Halfmoon							37	3
Halibut					35, 063	2, 991	51, 781	5, 120
Hardhead							39	5
Harvestfish or "starfish"							343	10
Herring:								
Sea					145, 672	1, 093	230, 642	1, 616
Lake	22, 482	519					22, 482	519
Hickory shad							481	20
Hogfish							2	(9)
Horse mackerel							369	11
Jewfish							44	1
Kingfish (California)							457	11
Kingfish or "king mackerel"							3, 689	175
King whiting or "kingfish"							674	33
Lake trout	9, 497	1, 175					9, 497	1, 175
Launce							183	4
"Lingcod"					35	1	2, 538	99
Mackerel							68, 401	2, 061
Menhaden							369, 195	1, 958
Minnows	(9)	(9)					202	9
Mojarro							81	3
Mooneye	36	(9)	3	(9)			39	(9)

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[9] Less than 500 pounds or $500.

Fisheries of the United States and Alaska, 1930—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	Lakes		Mississippi River and tributaries		Alaska		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH—continued								
Mullet	-----	-----	-----	-----	-----	-----	28, 230	921
Mummichog	-----	-----	-----	-----	-----	-----	133	10
Muttonfish	-----	-----	-----	-----	-----	-----	225	15
Paddlefish	-----	-----	1, 411	162	-----	-----	1, 413	162
Permit	-----	-----	-----	-----	-----	-----	15	(9)
Pigfish	-----	-----	-----	-----	-----	-----	226	6
Pike or pickerel	-----	-----	-----	-----	-----	-----	22	3
Pike (jacks)	525	38	20	2	-----	-----	545	40
Pilchard	-----	-----	-----	-----	-----	-----	494, 451	2, 377
Pilotfish	-----	-----	-----	-----	-----	-----	2	(9)
Pinfish	-----	-----	-----	-----	-----	-----	112	2
Pollock	-----	-----	-----	-----	-----	-----	17, 934	309
Pompano	-----	-----	-----	-----	-----	-----	606	118
Porgies	-----	-----	-----	-----	-----	-----	56	2
Porkfish	-----	-----	-----	-----	-----	-----	1	(9)
Quillback	-----	-----	765	59	-----	-----	765	59
Rock bass	17	1	3	(9)	-----	-----	528	33
Rockfishes	-----	-----	-----	-----	9	(9)	7, 978	309
Rosefish	-----	-----	-----	-----	-----	-----	118	2
Sablefish	-----	-----	-----	-----	661	21	4, 993	203
Salmon:								
Atlantic	-----	-----	-----	-----	-----	-----	88	27
Blueback, red or sockeye	-----	-----	-----	-----	76, 339	2, 742	101, 442	5, 146
Chinook or king	-----	-----	-----	-----	17, 553	521	55, 396	4, 674
Chum or keta	-----	-----	-----	-----	59, 587	581	72, 255	698
Humpback or pink	-----	-----	-----	-----	241, 616	3, 404	241, 888	3, 412
Silver or coho	-----	-----	-----	-----	31, 347	793	55, 076	2, 092
Sauger pike	1, 831	95	5	1	-----	-----	1, 836	96
Sculpin	-----	-----	-----	-----	-----	-----	90	9
Scup	-----	-----	-----	-----	-----	-----	11, 868	358
Sea bass	-----	-----	-----	-----	-----	-----	5, 126	240
Sea bass, white (California)	-----	-----	-----	-----	-----	-----	1, 626	144
Sea robin	-----	-----	-----	-----	-----	-----	368	5
Shad	-----	-----	-----	-----	-----	-----	13, 416	1, 745
Sharks	-----	-----	-----	-----	-----	-----	2, 777	11
Sheepshead:								
Salt-water	-----	-----	-----	-----	-----	-----	1, 321	50
Fresh-water	2, 909	88	5, 261	290	-----	-----	8, 170	378
Silversides	-----	-----	-----	-----	-----	-----	260	12
Skates	-----	-----	-----	-----	-----	-----	1, 577	21
Skipper	-----	-----	-----	-----	-----	-----	6	1
Smelt	(9)	(9)	-----	-----	57	5	4, 248	264
Snapper:								
Mangrove	-----	-----	-----	-----	-----	-----	125	5
Red	-----	-----	-----	-----	-----	-----	7, 117	595
Snook	-----	-----	-----	-----	-----	-----	408	14
Spadefish	-----	-----	-----	-----	-----	-----	50	1
Spanish mackerel	-----	-----	-----	-----	-----	-----	6, 472	321
Spearfish	-----	-----	-----	-----	-----	-----	(9)	(9)
Splittail	-----	-----	-----	-----	-----	-----	19	1
Spot	-----	-----	-----	-----	-----	-----	5, 833	207
Squawfish	-----	-----	-----	-----	-----	-----	5	(9)
Squeteagues or "sea trout":								
Gray	-----	-----	-----	-----	-----	-----	36, 120	1, 380
Spotted	-----	-----	-----	-----	-----	-----	5, 409	467
Squirrelfish	-----	-----	-----	-----	-----	-----	1	(9)
Steelhead trout	-----	-----	-----	-----	33	3	3, 987	334
Striped bass	-----	-----	-----	-----	-----	-----	3, 286	481
Sturgeon and sturgeon roe	43	11	11	1	-----	-----	264	35
Sturgeon, shovelnose	-----	-----	229	23	-----	-----	229	23
Suckers	6, 746	186	700	63	-----	-----	7, 656	266
Sunfish	12	1	375	25	-----	-----	832	39
Surf fishes	-----	-----	-----	-----	-----	-----	371	15
Swordfish	-----	-----	-----	-----	-----	-----	5, 932	989
Tautog	-----	-----	-----	-----	-----	-----	894	47
Tenpounder	-----	-----	-----	-----	-----	-----	191	6
Thimble-eyed mackerel	-----	-----	-----	-----	-----	-----	36	1
Tilefish	-----	-----	-----	-----	-----	-----	4, 095	186
Tomcod	-----	-----	-----	-----	-----	-----	218	7
Tripletail	-----	-----	-----	-----	-----	-----	13	1
Tullibee	905	23	-----	-----	-----	-----	905	23

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[9] Less than 500 pounds or $500.

Fisheries of the United States and Alaska, 1930—Continued

CATCH: By sections—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	Lakes		Mississippi River and tributaries		Alaska		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
FISH—continued								
Tuna and tunalike fishes:								
Albacore							286	24
Bluefin							21,921	1,238
Bonito							5,164	167
Skipjack or striped							20,486	790
Yellowfin							56,654	3,396
Horse mackerel							422	22
Turbot							1	(9)
White bass	484	24	65	5			549	29
Whitebait							275	19
Whitefish	10,172	1,599					10,397	1,612
Whitefish, Menominee	372	25					372	25
White perch							1,488	135
Whiting							14,003	179
Wolffish							2,657	54
Yellow bass			8	1			8	1
Yellow perch	6,578	330	22	2			7,083	372
Yellow pike	4,002	515	25	4			4,027	519
Yellowtail							4,863	217
Miscellaneous fish			73	5			217	10
Total	89,612	5,875	53,466	3,310	609,305	12,178	2,836,894	75,155
SHELLFISH, ETC.								
Abalone							647	130
Clams:								
Cockle							59	15
Hard							9,250	2,472
Pismo							22	10
Razor					853	48	2,074	228
Soft							14,492	813
Surf							461	54
Mixed							5	1
Conchs							55	3
Crabs:								
Hard					195	18	74,162	1,752
King							6,184	29
Rock							1	(9)
Soft							8,860	789
Stone							308	27
Crawfish	51	3	8	1			236	22
Lobsters:								
Common							13,916	3,587
Spiny							1,682	290
Mussels, sea							306	16
Mussel shells	5,285	160	54,205	932			59,490	1,092
Octopus							167	11
Oysters:								
Eastern, market, public							35,377	3,460
Eastern, market, private							50,955	8,163
Eastern, seed, public							29,370	3,105
Eastern, seed, private							8,722	1,236
Western, market							316	259
Japanese, market							228	83
Periwinkle							330	39
Scallops:								
Bay							4,217	760
Sea							2,450	450
Shrimp			147	15	932	42	92,327	3,134
Squid							18,484	293
Terrapin							75	30
Turtles			97	3			195	7
Frogs			232	20			232	20
Irish moss							93	6
Sponges							549	931
Bloodworms							54	63
Sandworms							58	61
Miscellaneous shellfish			16	3			16	3
Pearls and slugs		12		101				113
Total	5,336	175	54,705	1,075	1,980	108	436,425	33,557

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[9] Less than 500 pounds or $500.

Fisheries of the United States and Alaska, 1930—Continued

CATCH: By sections—Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	Lakes		Mississippi River and tributaries		Alaska		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
WHALE PRODUCTS [10]								
Oil, sperm					909	41	909	46
Oil, whale					6,125	37	9,969	538
Whale meal and scrap					2,340	51	2,340	51
Other whale products					43	2	43	2
Total					9,417	470	13,261	637
Grand total	94,948	6,050	108,171	4,385	620,702	12,756	3,286,580	109,349

CATCH: By States

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

State	Marine and coastal rivers		Mississippi River and tributaries		Lakes [11]		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Alabama	7,113	315	1,921	42			9,034	357
Arkansas			24,964	744			24,964	744
California	696,891	12,473					696,891	12,473
Connecticut	88,012	4,519					88,012	4,519
Delaware	51,081	653					51,081	653
Florida	117,548	4,529			2,867	117	120,415	4,646
Georgia	34,873	536					34,873	536
Illinois			21,713	996	1,065	97	22,778	1,093
Indiana			6,255	268	1,160	81	7,415	349
Iowa			7,924	350			7,924	350
Kansas			344	24			344	24
Kentucky			3,920	185			3,920	185
Louisiana	49,886	1,960	11,850	603			61,736	2,563
Maine	143,823	4,330					143,823	4,330
Maryland	71,098	3,985					71,098	3,985
Massachusetts	442,474	16,289					442,474	16,289
Michigan			32	1	35,579	2,963	35,611	2,964
Minnesota			5,056	211	11,364	388	16,420	599
Mississippi	15,736	740	3,855	203			19,591	943
Missouri			1,429	102			1,429	102
Nebraska			135	15			135	15
New Hampshire	1,069	69					1,069	69
New Jersey	97,276	7,475					97,276	7,475
New York	45,495	4,934			1,701	150	47,196	5,084
North Carolina	168,938	1,836					168,938	1,836
Ohio			1,263	50	24,115	1,252	25,378	1,302
Oklahoma			318	31			318	31
Oregon	26,459	2,256					26,459	2,256
Pennsylvania	17	3		([12])	3,419	279	3,436	282
Rhode Island	25,972	2,287					25,972	2,287
South Carolina	5,106	253					5,106	253
South Dakota			321	8			321	8
Tennessee			9,176	255			9,176	255
Texas	15,693	777	1,030	34			16,723	811
Virginia	245,294	7,487					245,294	7,487
Washington	110,038	8,335					110,038	8,335
West Virginia			45	7			45	7
Wisconsin			6,620	256	16,545	840	23,165	1,096
Alaska	620,702	12,756					620,702	12,756
Total	3,080,594	98,797	108,171	4,385	97,815	6,167	3,286,580	109,349

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[10] The weight of whales caught was not determined; therefore, the weight of the manufactured product is shown.

[11] Includes Lake Ontario, Lake Erie, Lake Huron, Lake Michigan, LakeSuperior, Rainy Lake, Namakan Lake, Lake of the Woods, Lake Okeechobee, and several mussel-bearing streams tributary to Lakes Huron and Michigan.

[12] Less than $500.

Yield of marine fisheries of the United States, 1930: By gear

Gear	New England		Middle Atlantic		Chesapeake	
	Pounds	Value	Pounds	Value	Pounds	Value
Purse seines	83, 344, 140	$1, 678, 805	58, 108, 240	$528, 657	115, 599, 007	$832, 726
Haul seines	4, 334, 554	123, 566	6, 156, 131	175, 977	5, 734, 552	326, 897
Gill nets	27, 051, 446	800, 404	4, 457, 543	304, 193	3, 066, 406	380, 319
Lines	136, 994, 604	4, 295, 936	14, 170, 459	643, 599	50, 569, 342	887, 771
Pound nets	15, 296, 727	323, 109	31, 458, 940	1, 173, 658	71, 477, 764	2, 659, 770
Floating traps	13, 313, 815	390, 587	356, 444	20, 864		
Weirs	32, 615, 387	183, 934	3, 974, 060	16, 243		
Stop nets			137, 008	18, 659	31, 800	3, 636
Fyke nets	209, 122	20, 201	3, 715, 253	110, 383	1, 336, 855	77, 044
Dip nets	6, 896, 327	91, 929	126, 332	21, 465	3, 359, 848	262, 185
Cast nets			8, 707	1, 279	24, 000	2, 520
Scap nets			92, 614	8, 693		
Bag nets	165, 213	22, 578				
Drag nets			146, 170	21, 473		
Push nets	70, 200	20, 550	23, 680	4, 856		
Pocket nets	1, 550	293				
Otter trawls	324, 670, 060	10, 456, 829	14, 754, 753	496, 143	1, 882, 747	86, 319
Traps	209, 825	7, 729				
Pots	15, 217, 939	3, 444, 182	3, 462, 348	492, 830	291, 860	25, 445
Harpoons	5, 241, 197	875, 957	234, 140	37, 887		
Spears	169, 124	19, 332	231, 117	29, 842	16, 600	1, 244
Scrapes, crab					7, 428, 389	426, 452
Dredges	18, 044, 906	3, 219, 820	46, 234, 785	7, 308, 141	17, 816, 643	1, 361, 773
Tongs	2, 436, 536	518, 414	3, 016, 720	843, 674	36, 782, 927	4, 002, 538
Rakes	1, 354, 593	330, 354	1, 550, 045	481, 311	866, 972	103, 687
Forks	11, 588, 903	499, 068	605, 460	199, 079		
Hoes	2, 097, 266	163, 683	327, 419	40, 921		
Picks					19, 432	7, 564
Gaffs			4, 350	784		
By hand	27, 545	6, 219	515, 263	83, 061	87, 780	24, 160
Total	701, 350, 979	27, 493, 479	193, 867, 981	13, 063, 672	316, 392, 924	11, 472, 050

Gear	South Atlantic and Gulf		Pacific		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Purse seines	198, 360, 548	$803, 822	248, 983, 923	$4, 595, 310	704, 395, 858	$8, 439, 320
Haul seines	26, 775, 958	1, 000, 661	5, 750, 111	508, 288	48, 751, 306	2. 135, 389
Gill nets	37, 867, 157	1, 645, 386	31, 501, 924	2, 710, 774	103, 944, 476	5, 841, 076
Trammel nets	5, 399, 327	317, 993	813, 607	87, 378	6, 212, 934	405, 374
Lines	24, 870, 957	1, 252, 261	156, 287, 360	8, 849, 242	382, 892, 722	15, 928, 808
Pound nets	12, 660, 693	302, 194	21, 047, 315	1, 740, 620	151, 941, 439	6, 199, 351
Floating traps					13, 670, 259	411, 459
Weirs	5, 000	250	437, 800	2, 579	37, 032, 247	203, 001
Wheels	141, 000	1, 725	280, 713	34, 086	421, 713	35, 811
Stop nets					168, 808	22, 296
Fyke nets	1, 156, 996	59, 917	471, 750	58, 374	6, 889, 976	325, 911
Dip nets	517, 829	32, 303	2, 628, 623	113, 652	13, 528, 959	521, 535
Cast nets	119, 083	6, 789			151, 790	10, 589
Scap nets					92, 614	8, 693
Bag nets			1, 296, 247	19, 444	1, 461, 460	42, 022
Drag nets			191, 501	12, 171	337, 671	33, 644
Push nets					93, 880	25, 406
Pocket nets					1, 550	293
Reef nets			5, 162	380	5, 162	380
Lampara nets			329, 089, 383	1, 769, 106	329, 089, 383	1, 769, 106
Paranzella nets			18, 926, 040	840, 980	18, 926, 040	840, 980
Otter trawls	87, 967, 911	2, 989, 583			429, 275, 471	14, 028, 874
Beam trawls			2, 054, 893	46, 447	2, 054, 893	46, 447
Traps	116, 073	6, 714	6, 504, 771	702, 072	6, 830, 669	716, 515
Pots	696, 426	53, 911			19, 668, 573	4, 016, 368
Harpoons			4, 379, 252	240, 810	9, 854, 589	1, 154, 654
Spears	172, 016	14, 964			588, 857	65, 382
Scrapes, crab					7, 428, 389	426, 452
Dredges	8, 815, 612	629, 309			90, 911, 946	12, 519, 043
Tongs	7, 209, 318	717, 623	[1] 2, 090, 894	602, 089	51, 536, 395	6, 684, 338
Rakes	438, 645	55, 573			4, 210, 255	970, 925
Forks	97, 928	7, 630			12, 292, 291	705, 777
Hoes					2, 424, 685	204, 604
Grabs	3, 111, 470	119, 863			3, 111, 470	119, 863
Picks					19, 432	7, 564
Gaffs					4, 350	784
Hooks	238, 418	220, 758			238, 418	220, 758
Diving apparatus, abalone or sponge	333, 583	710, 402	647, 316	130, 331	980, 899	840, 733
By hand	687, 518	115, 188	58	7	1, 318, 164	228. 635
Total	417, 759, 466	11, 064, 819	833, 388, 643	23, 064, 140	2, 462, 759, 993	86, 158, 160

[1] Includes catch by rakes and shovels.

Industries related to the fisheries of the United States and Alaska, 1930 [1]

Item	New England	Middle Atlantic	Chesapeake	South Atlantic and Gulf	Pacific
Transporting:					
Persons engaged—					
On vessels	363	101	855	437	249
On boats	1	117		349	
Total	364	218	855	786	249
Vessels—					
Steam	3				1
Net tonnage	150				33
Motor	147	35	404	142	98
Net tonnage	1, 835	525	5, 273	1, 418	2, 250
Sail			24	43	
Net tonnage			737	409	
Total vessels	150	35	428	185	99
Total net tonnage	1, 985	525	6, 010	1, 827	2, 283
Boats	1	176		221	
Wholesale and manufacturing:					
Establishments	450	444	543	587	309
Persons engaged—					
Proprietors	364	531	812	726	385
Salaried employees	1, 028	964	294	374	897
Wage earners:					
Average for season	9, 862	4, 254	10, 569	13, 535	10, 554
Average for year	5, 163	3, 198	4, 708	5, 848	5, 080
Salaries and wages paid	$8, 455, 460	$7, 956, 080	$2, 976, 346	$3, 464, 041	$8, 636, 995
Manufactured products [5]	$26, 755, 350	$15, 421, 325	$10, 383, 691	$12, 320, 405	$45, 958, 393
Fishermen's manufactured products:					
Persons engaged	4, 147	592	531	1, 011	(6)
Products	862, 965	460, 113	108, 140	265, 165	(6)

Item	Lakes	Mississippi River and tributaries	Alaska	Total
Transporting:				
Persons engaged—				
On vessels	76	27	1, 926	4, 034
On boats			(2)	467
Total	76	27	1, 926	4, 501
Vessels—				
Steam	6		20	30
Net tonnage	193		32, 948	33, 324
Motor	16	13	466	1, 321
Net tonnage	249	214	14, 927	26, 691
Sail			1	68
Net tonnage			1, 590	2, 736
Total vessels	22	13	487	1, 419
Total net tonnage	442	214	49, 465	62, 751
Boats			[3] 965	1, 363
Wholesale and manufacturing:				
Establishments	228	174	260	2, 995
Persons engaged—				
Proprietors	306	6, 383	15, 453	(4)
Salaried employees	375			(4)
Wage earners:				
Average for season	1, 330			(4)
Average for year	1, 102	(4)	(4)	(4)
Salaries and wages paid	$2, 985, 988	$4, 639, 877	(4)	(4)
Manufactured products [5]	$1, 763, 205	$3, 804, 914	$33, 852, 986	$150,260,269
Fishermen's manufactured products:				
Persons engaged	566	(6)	(6)	(6)
Products	257, 033	(6)	(6)	(6)

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[1] Data for Mississippi River and tributaries are for 1922 with the exception of the number of establishments and value of manufactured products of the pearl button industry which are for 1930.

[2] Included on vessels.

[3] Includes scows, houseboats, pile drivers, etc.

[4] Detailed statistics not available.

[5] These production figures are not comparable with those shown in previous reports since packaged fresh and frozen fishery products of the marine and lakes sections are now included.

[6] Data not available.

MANUFACTURED FISHERY PRODUCTS TRADE

Statistics of the products of the various manufactured fishery enterprises were collected more completely for the year 1930 than for any previous year. It will be noted that in addition to statistics on the production of cured fishery products, canned fishery products, and by-products that the data presented herewith indicate the output of all packaged fishery products, including shucked oysters, crab meat, and the like.

This compilation includes the production throughout the marine and lake areas of the United States and Alaska, but does not include the manufactured products of the Mississippi River and tributaries.

Production of manufactured fishery products and by-products in the marine and lake sections of the United States and Alaska, 1930 [1]

Item	Quantity	Value
Alewives:		
Salted ... pounds	12, 623, 595	$354, 987
Corned ... do	1, 622, 600	31, 270
Spiced ... do	157, 500	13, 800
Pickled ... do	1, 786, 976	103, 175
Smoked ... do	298, 231	13, 758
Canned ... standard cases	76, 732	232, 121
Roe, canned ... do	56, 874	296, 604
Dry scrap ... tons	1, 010	46, 254
Oil ... gallons	33, 889	7, 173
Barracuda, fresh fillets ... pounds	225, 000	43, 500
Blue pike:		
Fresh fillets ... do	618, 301	127, 490
Frozen fillets ... do	145, 250	29, 050
Buffalofish, smoked ... do	743, 952	312, 493
Butterfish:		
Pandressed ... do	63, 986	7, 610
Smoked ... do	650, 848	197, 655
Cabrilla, fresh fillets ... do	115, 000	20, 250
Carp, smoked ... do	106, 500	31, 750
Cisco, chubs, and tullibee, smoked ... do	8, 272, 227	2, 323, 455
Cod:		
Fresh sticks ... do	280, 390	49, 486
Fresh fillets ... do	5, 642, 605	843, 373
Frozen fillets ... do	1, 609, 928	215, 320
Salted bits ... do	21, 627	1, 808
Salted, including boneless salted ... do	15, 617, 613	1, 044, 561
Salted, packaged ... do	2, 812, 077	[2] 412, 740
Stockfish ... do	15, 600	2, 090
Pickled ... do	120, 135	5, 665
Smoked fillets ... do	638, 022	94, 981
Cakes, balls, etc., canned ... standard cases	28, 224	259, 659
Oil, cod and cod-liver ... gallons	135, 884	102, 857
Croaker:		
Pandressed ... pounds	858, 705	83, 926
Fresh fillets ... do	28, 400	3, 473
Cusk:		
Fresh sticks ... do	150, 490	25, 732
Fresh fillets ... do	340, 680	53, 507
Frozen fillets ... do	17, 460	1, 971
Salted ... do	508, 408	22, 933
Smoked fillets ... do	869, 635	122, 649
Eels:		
Salted ... do	63, 400	6, 340
Smoked ... do	77, 682	28, 160
Flounders:		
Pandressed ... do	85, 565	10, 032
Fresh fillets ... do	6, 208, 203	1, 240, 236
Frozen fillets ... do	359, 809	61, 712
Groupers, fresh steaks ... do	107, 000	19, 220

[1] The figures in the above table do not check in all instances with figures on certain manufactured products shown in the report for 1930. This is due to the fact that the above figures were obtained as the result of a more detailed survey, and several firms' production is included which is not shown in the previous report. The figures herewith include the production of every primary firm in the marine and lakes sections of the United States and Alaska manufacturing fishery products or by-products as shown above which operated in 1930 to the knowledge of the bureau.

[2] The item of 2,812,077 pounds of salted packaged cod, valued at $412,740, is included in the total, however, it should be explained that this item represents a further manufacture of salted cod which is shown elsewhere in the table.

Production of manufactured fishery products and by-products in the marine and lake sections of the United States and Alaska, 1930—Continued

Item	Quantity	Value
Haddock:		
Pandressed ... pounds	38, 590	$5, 789
Fresh sticks ... do	183, 470	31, 564
Fresh fillets ... do	44, 189, 952	6, 980, 307
Frozen fillets ... do	19, 511, 707	3, 017, 548
Salted ... do	679, 499	39, 034
Finnan haddie ... do	5, 098, 811	478, 303
Finnan haddie, canned ... standard cases	1, 002	15, 339
Smoked fillets ... pounds	1, 035, 443	191, 654
Flakes, canned ... standard cases	62, 067	614, 475
Hake:		
Sticks, fresh and frozen ... pounds	214, 060	35, 099
Fresh fillets ... do	2, 195, 512	284, 188
Frozen fillets ... do	439, 102	58, 200
Salted ... do	5, 006, 869	173, 998
Smoked fillets ... do	55, 602	6, 178
Halibut:		
Fresh fillets ... do	46, 472	16, 217
Frozen fillets ... do	10, 859	2, 810
Steaks ... do	89, 938	15, 105
Salted ... do	5, 220	649
Herring, sea:		
Salted, including Scotch-cured ... do	8, 722, 670	500, 772
Roused ... do	352, 500	15, 045
Norwegian cure ... do	145, 375	9, 156
Spiced and Bismark ... do	76, 100	7, 766
Kippered ... do	198, 163	43, 715
Smoked—		
Bloaters ... do	2, 850, 862	270, 692
Boneless ... do	1, 387, 750	149, 283
Lengthwise ... do	127, 794	12, 780
Medium scaled ... do	265, 088	26, 263
Miscellaneous ... do	730, 959	105, 517
Canned, "sardines" ... standard cases	1, 399, 212	4, 459, 071
Pomace ... tons	3, 736	7, 592
Meal ... do	13, 831	732, 963
Oil ... gallons	3, 670, 664	908, 359
Scales ... pounds	81, 153	1, 932
Herring, lake:		
Salted ... do	8, 082, 003	248, 851
Spiced ... do	95, 000	13, 350
Smoked, including smoked fillets ... do	637, 440	66, 670
Lake trout:		
Salted ... do	201, 950	29, 571
Smoked ... do	472, 413	132, 369
Mackerel:		
Fresh and frozen fillets ... do	178, 432	37, 453
Salted ... do	2, 410, 532	197, 140
Salted, fillets and split ... do	2, 184, 364	247, 356
Smoked ... do	328, 571	65, 718
Canned ... standard cases	132, 262	467, 885
Menhaden:		
Acid scrap ... tons	15, 725	395, 295
Dry scrap ... do	23, 235	1, 113, 201
Meal ... do	9, 752	514, 717
Oil ... gallons	3, 311, 215	654, 195
Mullet:		
Salted and dry-salted ... pounds	2, 071, 289	128, 011
Roe, salted ... do	75, 184	19, 295
Pilchard or sardines:		
Salted ... do	65, 490	3, 472
Canned ... standard cases	2, 979, 333	8, 741, 928
Meal ... tons	25, 938	1, 414, 858
Oil ... gallons	5, 803, 166	1, 826, 319
Pollock:		
Fresh fillets ... pounds	277, 714	36, 298
Frozen fillets ... do	25, 773	3, 594
Salted ... do	3, 133, 905	171, 113
Rockfishes, fresh fillets ... do	761, 500	120, 400
Sablefish:		
Salted ... do	176, 009	12, 107
Pickled ... do	10, 800	540
Smoked ... do	333, 477	75, 782
Salmon:		
Steaks ... do	34, 917	5, 565
Dried ... do	1, 593, 600	115, 585
Mild-cured ... do	10, 157, 175	2, 065, 553
Salted ... do	189, 546	24, 684
Pickled ... do	863, 150	103, 661
Kippered ... do	2, 672, 214	[3] 594, 547

[3] An item of 300,000 pounds of kippered salmon valued at $115,000, and an item of 6,844,175 pounds of smoked salmon, valued at $2,665,881, are included in the total; however, it should be explained that these items represent a further manufacture of mild-cured salmon which is shown elsewhere in the table.

Production of manufactured fishery products and by-products in the marine and lake sections of the United States and Alaska, 1930—Continued

Item	Quantity	Value
Salmon—Continued.		
Smoked, pounds	7,660,931	[3] $2,935,420
Canned, standard cases	6,086,479	42,828,172
Meal, tons	2,487	136,745
Oil, gallons	233,941	53,778
Eggs—		
For food, canned, standard cases	1,667	15,683
For bait, canned, do	4,345	103,753
Sea bass, black, fresh fillets, pounds	55,500	7,825
Sea bass, white, fresh fillets, do	326,250	79,375
Shad:		
Smoked, do	169,784	[4] 38,020
Canned, standard cases	12,248	42,190
Roe, canned, do	3,339	69,579
Shark oil, gallons	4,460	1,190
Spanish mackerel, dry-salted, pounds	75,421	5,714
Spot:		
Pandressed, do	34,445	4,451
Salted and dry-salted, do	172,000	10,220
Squeteague:		
Pandressed, do	802,309	85,014
Fresh fillets, do	233,935	37,410
Sun-dried, do	27,717	8,316
Sturgeon:		
Smoked, do	2,060,699	1,592,277
Roe—		
Fresh, do	182	164
Salted, do	740	741
Caviar, canned, standard cases	8,024	1,004,820
Totuava, fillets, pounds	260,000	52,000
Tuna and tunalike fishes:		
Salted bonito, do	18,134	1,567
Canned, standard cases	2,010,640	13,055,876
Meal, tons	8,554	428,556
Oil, gallons	56,748	14,153
Whales:		
Pickled meat, pounds	37,000	1,850
Meal, tons	1,170	51,400
Bone, pounds	5,600	308
Oil—		
Whale, gallons	1,325,229	536,904
Sperm, do	128,027	48,009
Whitefish:		
Salted, pounds	112,523	8,221
Smoked, do	661,759	221,385
Caviar, do	950	476
Caviar, canned, standard cases	866	26,804
Whiting, pandressed, pounds	88,445	6,023
Wolffish:		
Fresh fillets, do	19,812	3,719
Frozen fillets, do	37,737	5,280
Yellow perch, fresh fillets, do	180,224	38,706
Crab meat:		
Packaged, fresh cooked, do	5,573,474	1,783,498
Canned, standard cases	1,596	57,810
King crab, scrap, tons	636	24,961
Lobster meat, packaged, fresh cooked, pounds	103,716	129,488
Spiny lobster, whole, cooked, do	1,064,250	287,693
Shrimp:		
Headless, packaged—		
Fresh, do	1,123,129	287,282
Frozen, do	1,485,387	266,878
Cooked, fresh, do	330,645	103,844
Canned, standard cases	826,242	5,013,337
Sun-dried, pounds	1,740,329	368,684
Meal, tons	2,386	74,287
Abalone, steaks, pounds	583,589	248,025
Clams, hard:		
Fresh-shucked, gallons	27,931	61,615
Canned—		
Whole, standard cases	28,502	164,883
Chowder, do	254,449	1,011,499
Minced, do	4,476	29,583
Cocktail juice and broth, do	12,945	98,793

[4] An item of 16,050 pounds of smoked shad, valued at $4,182, is included in the total; however, it should be explained that this item represents a further manufacture of mild-cured shad which is included elsewhere in the table.

Production of manufactured fishery products and by-products in the marine and lake sections of the United States and Alaska, 1930—Continued

Item	Quantity	Value
Clams, razor, canned:		
Whole.....standard cases	5,793	$50,157
Chowder.....do	640	1,600
Minced.....do	67,533	612,754
Juice.....do	566	2,311
Clams, soft:		
Fresh shucked.....gallons	189,577	232,079
Canned—		
Whole.....standard cases	95,203	419,636
Chowder.....do	71,240	209,989
Juice and broth.....do	16,388	54,782
Marine-shell products:		
Blanks.....gross	721,346	336,628
Buttons.....do	4,286,617	3,651,983
Novelties		776,334
Mussels, fresh-water:		
Shells—		
Blanks.....gross	176,740	36,812
Buttons.....do	1,023,618	369,705
Novelties		75
Oysters:		
Eastern—		
Fresh-shucked.....gallons	5,435,368	9,937,898
Canned.....standard cases	403,981	1,871,894
Japanese, fresh-shucked.....gallons	27,950	97,825
Western, fresh-shucked.....do	39,405	311,125
Shell products—		
Poultry feed.....tons	279,470	2,316,576
Lime.....do	58,113	194,444
Lime, "burned".....do	9,847	89,290
Scallops, bay, fresh-shucked.....gallons	463,863	821,574
Scallops, sea, fresh-shucked.....do	272,153	502,229
Squid, dried.....pounds	1,383,660	55,346
Turtle meat and soup, canned.....standard cases	4,663	94,889
Terrapin meat and stew, canned.....do	96	8,003
Unclassified products:		
Fillets and steaks [5].....pounds	737,796	89,806
Miscellaneous packaged [6].....do	172,230	29,603
Salted—		
Cheeks and tongues.....do	12,858	1,016
Other [7].....do	509,503	40,661
Pickled and spiced [8].....do	163,313	30,653
Smoked [9].....do	189,900	46,389
Canned—		
Fish for cat and dog food.....standard cases	16,587	50,460
Other [10].....do	131,492	1,028,716
Dry scrap.....tons	893	39,767
Meal [11].....do	16,660	1,026,191
Oil—		
Tanner's.....gallons	40,618	19,137
Miscellaneous [12].....do	72,445	21,573
Glue.....do	524,082	1,240,558
Other by-products [13]		344,777
Total fresh and frozen packaged products.....pounds	157,378,368	28,996,454
Total cured products.....do	124,496,656	16,837,406
Total canned products.....do	577,782,585	83,015,055
Total by-products		19,559,856
Grand total		148,408,771

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[5] Includes amberjack, bluefish, butterfish, grouper, lake trout, mullet, jack pike, red snapper, salmon sauger pike, shad, snook, Spanish mackerel, whitefish, and whiting fillets; amberjack, "lingcod," red snapper and rockfish steaks; and red snapper and whiting sticks.

[6] Includes fresh alewife roe, pandressed bluefish; cisco caviar; packaged fish cakes; fresh-shucked conchs; and frozen packaged scallops.

[7] Includes salted anchovies, barracuda, bluefish, cabrilla, ciscoes, black and white sea bass, shad and yellowtail; corned shad; and mild-cured shad.

[8] Includes spiced carp; pickled lake herring, sea herring, lake trout, and Dolly Varden trout.

[9] Includes smoked flounders, pilchard, sablefish, and salmon fillets.

[10] Includes canned smoked eels, fish cakes, etc., haddock fillets, creamed fish, smoked sea herring, spiced and soused salmon, salmon roe, smoked sturgeon, shrimp gumbo soup, abalone, clam cakes, pickled mussels, squid, herring for bait, and miscellaneous fish eggs for food.

[11] Includes meal from mackerel, king crabs, clams, kelp, and mixed species.

[12] Includes oil from blackfish, mackerel, shark livers, and mixed species.

[13] Includes agar-agar; alginates, crab scrap, fish flour, isinglass, menhaden for bait, poultry feed and lime from fresh-water mussel shells, sea herring skins, and shark fins, meat, skins, and teeth.

CANNED FISHERY PRODUCTS AND BY-PRODUCTS TRADE

The output of canned fishery products and by-products in the United States and Alaska in 1931 was valued at $79,513,846. Of the total, canned products comprised $62,948,791 and by-products $16,565,055, a decrease of 24 per cent in the value of canned products and 30 per cent in the value of by-products when compared with the respective values of the same groups for the previous year.

Fishery products were canned at 412 establishments in the United States and Alaska during 1931. The combined output of these canneries amounted to 12,580,826 standard cases. The net weight of the products canned amounted to 506,414,020 pounds.

Canned fishery products or by-products were prepared in 27 States and Alaska during 1931. Alaska ranked first in the value of these products, accounting for 38 per cent of the total; California ranked second with 19 per cent of the total; and Washington ranked third with 9 per cent.

Canned fishery products and by-products of the United States and Alaska, 1931

SUMMARY OF PRODUCTION: BY COMMODITIES

Product	Number of plants	Standard cases	Pounds	Value
Canned products:				
Salmon—				
United States	50	1, 336, 234	64, 139, 232	$8, 986, 308
Alaska	116	5, 403, 811	259, 382, 928	29, 096, 868
Sardines—				
Maine	27	885, 408	22, 135, 200	2, 647, 187
California	22	1, 713, 407	82, 243, 536	4, 715, 089
Tuna and tunalike fishes	15	1, 216, 976	29, 207, 424	7, 279, 392
Alewives	16	34, 620	1, 661, 760	78, 973
Alewife roe	31	32, 740	1, 571, 520	132, 073
Shad	4	747	35, 856	2, 091
Shad roe	9	2, 100	100, 800	63, 060
Mackerel	8	102, 392	4, 914, 816	246, 848
Fish flakes	5	28, 486	1, 367, 328	514, 553
Fish cakes, balls, etc	7	103, 704	4, 977, 792	779, 411
Cat and dog food	4	52, 509	2, 520, 432	143, 345
Salmon roe and caviar	5	3, 360	161, 280	30, 486
Sturgeon caviar	8	4, 630	222, 240	609, 502
Whitefish roe and caviar	6	829	39, 792	23, 498
Salmon eggs (for bait)	10	5, 246	251, 808	149, 186
Miscellaneous fish, roe, and caviar	10	9, 391	450, 768	77, 870
Oysters	43	306, 278	4, 594, 170	963, 525
Shrimp	55	821, 875	13, 758, 649	3, 982, 247
Clam products	61	500, 040	[1] 11, 882, 625	2, 256, 909
Crabs	5	646	31, 008	12, 817
Turtle products	3	4, 058	194, 784	74, 945
Miscellaneous shellfish	6	11, 839	568, 272	82, 608
Total	[2] 412	12, 580, 826	506, 414, 020	62, 948, 791

	Quality	Value
By-products:		
Oyster-shell products ... tons	306, 229	$1, 992, 024
Fresh-water mussel-shell products		4, 970, 240
Marine pearl-shell products		3, 552, 903
Scrap, meal, etc ... tons	84, 183	2, 986, 395
Marine-animal oils ... gallons	8, 565, 651	1, 619, 936
Miscellaneous by-products		1, 443, 557
Total		16, 565, 055
Grand total		79, 513, 846

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[1] "Cut out" or "Drained" weights of can contents are included for whole and minced clams, and gross can contents for chowder, bouillon, broth, juice, and cocktail.

[2] Exclusive of duplication.

Canned fishery products and by-products of the United States and Alaska, 1931—Continued

VALUE OF PRODUCTION: BY STATES

State	Canned products	By-products [3]	Total
Maine	$3, 580, 321	$219, 647	$3, 799, 968
Massachusetts and Rhode Island	1, 134, 691	1, 650, 629	2, 785, 320
Connecticut	----------	992, 744	992, 744
New York and New Jersey	1, 345, 155	2, 826, 450	4, 171, 605
Pennsylvania	----------	572, 905	572, 905
Delaware	----------	96, 155	96, 155
Maryland	77, 831	695, 692	773, 523
Virginia	129, 551	939, 218	1, 068, 769
North Carolina	22, 439	152, 443	174, 882
South Carolina	293, 688	75, 604	369, 292
Georgia and Florida	937, 312	441, 099	1, 378, 411
Alabama	270, 886	47, 456	318, 342
Mississippi	1, 283, 437	225, 200	1, 508, 637
Louisiana	1, 863, 897	683, 945	2, 547, 842
Texas, Utah, and Wisconsin	458, 756	157, 249	616, 005
Missouri, Illinois, and Kentucky	----------	75, 988	75, 988
Iowa	----------	3, 583, 013	3, 583, 013
Washington	6, 752, 088	133, 035	6, 885, 123
Oregon	2, 858, 046	15, 170	2, 873, 216
California	12, 529, 384	2, 290, 600	14, 819, 984
Alaska	29, 411, 309	690, 813	30, 102, 122
Total	62, 948, 791	16, 565, 055	79, 513, 846

[3] Including menhaden, fresh-water mussel-shell, and marine pearl-shell products.

Pack of canned salmon, Pacific Coast States and Alaska, 1931, standard cases

Product	Alaska							
	Southeast		Central		Western		Total	
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*	*Cases*	*Value*
Chinook or king:								
1-pound tall	7, 093	$46, 476	9, 126	$65, 671	5, 719	$39, 597	21, 938	$151, 744
1-pound flat	3, 155	33, 216	10, 722	117, 342	2, 844	28, 185	16, 721	178, 743
½-pound flat	4, 648	55, 133	7, 751	93, 677	809	8, 090	13, 208	156, 900
Total	14, 896	134, 825	27, 599	276, 690	9, 372	75, 872	51, 867	487, 387
Blueback, red or sockeye:								
1-pound tall	116, 327	1, 074, 133	383, 495	3, 471, 793	1, 095, 276	9, 859, 166	1, 595, 098	14, 405, 092
1-pound flat	17, 972	179, 720	19, 175	186, 951	3, 855	38, 210	41, 002	404, 881
½-pound flat	13, 596	217, 725	36, 483	458, 175	8, 099	100, 215	58, 178	776, 115
Total	147, 895	1, 471, 578	439, 153	4, 116, 919	1, 107, 230	9, 997, 591	1, 694, 278	15, 586, 088
Silver or coho:								
1-pound tall	77, 885	506, 653	79, 037	471, 763	92	556	157, 014	978, 972
1-pound flat	2, 663	20, 239	239	1, 670	----------	----------	2, 902	21, 909
½-pound flat	7, 907	89, 649	2, 055	16, 104	----------	----------	9, 962	105, 753
Total	88, 455	616, 541	81, 331	489, 537	92	556	169, 878	1, 106, 634
Humpback or pink:								
1-pound tall	1, 967, 051	6, 797, 186	935, 875	3, 141, 778	----------	----------	2, 902, 926	9, 938, 964
1-pound flat	2, 242	8, 849	2, 168	7, 805	----------	----------	4, 410	16, 654
½-pound flat	44, 149	246, 768	2, 375	13, 112	----------	----------	46, 524	259, 880
Total	2, 013, 442	7, 052, 803	940, 418	3, 162, 695	----------	----------	2, 953, 860	10, 215, 498
Chum or keta:								
1-pound tall	270, 256	870, 630	192, 768	606, 056	66, 555	202, 202	529, 579	1, 678, 888
1-pound flat	----------	----------	35	140	----------	----------	35	140
½-pound flat	3, 992	20, 745	250	912	----------	----------	4, 242	21, 657
Total	274, 248	891, 375	193, 053	607, 108	66, 555	202, 202	533, 856	1, 700, 685
Steelhead: 1-pound tall	72	576	----------	----------	----------	----------	72	576
Grand total	2, 539, 008	10, 167, 698	1, 681, 554	8, 652, 949	1, 183, 249	10, 276, 221	5, 403, 811	29, 096, 868

Pack of canned salmon, Pacific Coast States and Alaska, 1931, standard cases—Con.

Product	United States						Grand total, Alaska and United States	
	Washington		Oregon and California		Total			
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*	*Cases*	*Value*
Chinook or king:								
1-pound tall	27, 471	$169, 084	16, 005	$62, 358	43, 476	$231, 442	65, 414	$383, 186
1-pound oval	960	19, 200	2, 086	42, 063	3, 046	61, 263	3, 046	61, 263
1-pound flat	18, 817	230, 015	87, 672	851, 347	106, 489	1, 081, 362	123, 210	1, 260, 105
½-pound oval	87	2, 001	759	17, 457	846	19, 458	846	19, 458
½-pound flat	65, 073	876, 776	109, 047	1, 421, 569	174, 120	2, 298, 345	187, 328	2, 455, 245
¼-pound flat			1, 158	30, 762	1, 158	30, 762	1, 158	30, 762
Total	112, 408	1, 297, 076	216, 727	2, 425, 556	329, 135	3, 722, 632	381, 002	4, 210, 019
Blueback, red or sockeye:								
1-pound tall	1, 803	17, 128			1, 803	17, 128	1, 596, 901	14, 422, 220
1-pound flat	4, 629	60, 177			4, 629	60, 177	45, 631	465, 058
½-pound flat	87, 282	1, 346, 238	2, 245	35, 920	89, 527	1, 382, 158	147, 705	2, 158, 273
Total	93, 714	1, 423, 543	2, 245	35, 920	95, 959	1, 459, 463	1, 790, 237	17, 045, 551
Silver or coho:								
1-pound tall	46, 915	333, 069	2, 012	12, 474	48, 927	345, 543	205, 941	1, 324, 515
1-pound flat	21, 032	159, 748	14, 801	112, 488	35, 833	272, 236	38, 735	294, 145
½-pound flat	14, 839	135, 593	7, 612	66, 986	22, 451	202, 579	32, 413	308, 332
¼-pound oval	67	1, 206			67	1, 206	67	1, 206
¼-pound flat	2, 151	27, 963	5, 072	65, 936	7, 223	93, 899	7, 223	93, 899
Total	85, 004	657, 579	29, 497	257, 884	114, 501	915, 463	284, 379	2, 022, 097
Humpback or pink:								
1-pound tall	663, 698	2, 256, 573			663, 698	2, 256, 573	3, 566, 624	12, 195, 537
1-pound flat	2, 887	10, 393			2, 887	10, 393	7, 297	27, 047
½-pound flat	38, 943	218, 081			38, 943	218, 081	85, 467	477, 961
Total	705, 528	2, 485, 047			705, 528	2, 485, 047	3, 659, 388	12, 700, 545
Chum or keta:								
1-pound tall	67, 152	212, 549	11, 463	34, 575	78, 615	247, 124	608, 194	1, 926, 012
1-pound flat							35	140
½-pound flat	199	995			199	995	4, 441	22, 652
Total	67, 351	213, 544	11, 463	34, 575	78, 814	248, 119	612, 670	1, 948, 804
Steelhead:								
1-pound tall	80	480			80	480	152	1, 056
1-pound flat	1, 438	10, 066	1, 479	10, 353	2, 917	20, 419	2, 917	20, 419
½-pound oval	1, 766	30, 375	3, 093	53, 200	4, 859	83, 575	4, 859	83, 575
½-pound flat	1, 392	15, 312	2, 782	30, 602	4, 174	45, 914	4, 174	45, 914
¼-pound oval			130	2, 730	130	2, 730	130	2, 730
¼-pound flat	62	1, 116	75	1, 350	137	2, 466	137	2, 466
Total	4, 738	57, 349	7, 559	98, 235	12, 297	155, 584	12, 369	156, 160
Grand total	1, 068, 743	6, 134, 138	267, 491	2, 852, 170	1, 336, 234	8, 986, 308	6, 740, 045	38, 083, 176

NOTE.—"Standard cases" represent the various sized cases converted to the equivalent of 1-pound cans, 48 to the case. Salmon were canned at 34 plants in Washington, 11 in Oregon, 5 in California, and 116 in Alaska.

Pack of canned sardines, 1931

Sardine (herring)	Maine	
	Cases	Value
Quarters, ¼-pound (100 cans):		
In olive oil	1, 771	$10, 802
In cottonseed oil	789, 499	2, 386, 728
In mustard	39, 154	138, 044
In tomato sauce	4, 224	15, 736
Three-quarters, ¾-pound (48 cans): In mustard	35, 250	95, 877
Total	869, 898	2, 647, 187
Total (standard cases)	885, 408	----------

Sardine (pilchard)	California	
	Cases	Value
½-pound oval (48 cans):		
In tomato sauce	22, 440	$53, 285
In other sauces or oils	771	7, 479
1-pound oval (48 cans):		
In tomato sauce	1, 330, 257	3, 536, 204
In cottonseed oil	13, 756	38, 524
In mustard	111, 683	293, 964
In natural oil	28, 441	72, 971
In other sauces or oils	9, 284	22, 226
¼-pound square (100 cans):		
In various sauces or oils	1, 656	13, 646
5-ounce (100 cans):		
In natural oil	125, 821	353, 635
In other sauces or oils	4, 024	11, 267
6-ounce (100 cans): In miscellaneous sauces or oils	29, 967	79, 778
1-pound tall (48 cans):		
In natural oil	85, 758	200, 840
In other sauces or oils	12, 360	27, 495
Other sizes, various sauces or oils (standard cases)	1, 460	3, 775
Total	1, 777, 678	4, 715, 089
Total (standard cases)	1, 713, 407	----------

NOTE.—"Standard cases" represent the various sized cases converted to the uniform basis of ¼-pound cans, 100 to case, of sardines (herring), and 1-pound cans, 48 to the case, of sardines (pilchard). Sardines were canned at 27 plants in Maine and 22 in California.

Pack of canned tuna and tunalike fishes in California, 1931

Size	Albacore		Yellowfin		Bluefin		Striped	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value
¼-pound (48 cans)	[1] 9, 813	$50, 666	106, 530	$456, 764	1, 231	$3, 770	26, 979	$95, 411
¼-pound (100 cans)	--------	----------	10, 227	76, 096	9, 920	72, 176	9, 497	65, 989
½-pound (48 cans)	111, 900	798, 206	427, 389	2, 703, 344	23, 145	121, 487	173, 043	863, 546
1-pound (48 cans)	[2] 14, 506	193, 268	[2] 51, 773	582, 206	[2] 3, 855	34, 894	14, 528	119, 431
Flakes (standard cases)	11, 840	53, 525	56, 671	236, 151	5, 092	20, 596	12, 043	48, 945
Total	148, 059	1, 095, 665	652, 590	4, 054, 561	43, 243	252, 923	236, 090	1, 193, 322
Total (standard cases)	157, 658	----------	651, 523	----------	46, 895	--------	237, 524	----------

Size	"Tonno"		Bonito		Yellowtail		Total	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value
¼-pound (48 cans)	--------	----------	222	$610	--------	--------	144, 775	$607, 221
¼-pound (100 cans)	56, 259	$381, 858	14, 520	96, 021	354	$1, 947	100, 777	694, 087
½-pound (48 cans)	[3] 8, 087	53, 129	14, 332	59, 288	408	1, 684	758, 304	4, 600, 684
1-pound (48 cans)	--------	----------	11, 201	74, 349	1, 241	9, 237	97, 104	1, 013, 385
Flakes (standard cases)	--------	----------	1, 423	4, 665	38	133	87, 107	364, 015
Total	64, 346	434, 987	41, 698	234, 933	2, 041	13, 001	1, 188, 067	7, 279, 392
Total (standard cases)	66, 687	----------	53, 392	----------	3, 297	--------	1, 216, 976	----------

[1] Includes the pack in ⅛-pound jars, 96 to the case and 7-ounce jars, 24 to the case, which have been converted to the equivalent of ¼-pound cans, 48 to the case.

[2] Includes the pack in 4-pound cans, 12 to the case, which have been converted to the equivalent of 1-pound cans, 48 to the case.

[3] Includes the pack in ½-pound cans, 50 the case, which have been converted to the equivalent of ½-pound cans, 48 to the case.

NOTE.—"Standard cases" represent the various sized cases converted to the equivalent of forty-eight ½-pound cans to the case. Tuna and tunalike fishes were canned in 15 plants in California.

Pack of canned alewives and alewife roe, 1931

STANDARD CASES

Product	Maryland		Virginia		North Carolina		Total	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value
Alewives	17,650	$41,155	16,970	$37,818			34,620	$78,973
Alewife roe	7,896	35,416	21,270	83,264	3,574	$13,393	32,740	132,073
Total	25,546	76,571	38,240	121,082	3,574	13,393	67,360	211,046

ACTUAL CASES

Product and size	Cases	Value
Alewives:		
16-ounce (48 cans)	17,519	$39,034
17-ounce (24 cans)	4,206	5,423
15 and 19-ounce (24 cans)	28,763	34,516
Total		78,973
Alewife roe:		
7½, 8, and 8½-ounce (48 cans)	9,181	30,438
16-ounce (24 cans)	3,278	5,851
17-ounce (24 cans)	41,341	79,279
19-ounce (24 cans)	5,746	12,037
Other sizes (standard cases)	997	4,468
Total		132,073
Grand total		211,046

NOTE.—"Standard cases" represent the various sized cases converted to the equivalent of 1-pound cans, 48 to the case. Alewives or alewife roe were canned at 8 plants in Maryland, 20 in Virginia, and 3 in North Carolina.

Pack of canned shrimp, 1931

STANDARD CASES

State	Dry pack (in tins)		Wet pack (in tins)		Wet pack (in glass)[1]		Total	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value
South Carolina and Alabama	10,946	$48,677	46,315	$216,317			57,261	$264,994
Georgia	16,551	85,101	41,945	222,411			58,496	307,512
Florida	2,203	11,530	31,755	165,833	14,235	$135,569	48,193	312,932
Mississippi	60,194	243,140	141,765	548,813			201,959	791,953
Louisiana	85,054	429,004	278,193	1,336,583			363,247	1,765,587
Texas	7,305	35,938	58,564	264,779	15,820	142,408	81,689	443,125
Georgia and Louisiana					10,530	96,144	10,530	96,144
Total	182,253	853,390	598,537	2,754,736	40,585	374,121	821,375	3,982,247

[1] The pack of shrimp in glass for Georgia and Louisiana has been grouped to avoid the disclosure of private enterprise.

Pack of canned shrimp, 1931—Continued

ACTUAL CASES

Size	Cases	Value
In tins, dry:		
4-ounce (48 cans)	8,251	$32,349
5-ounce (48 cans)	153,212	687,965
8, 8¼, and 8½ ounce (24 cans)	22,145	110,623
Other sizes (standard cases)	4,163	22,453
In tins, wet:		
3¾, 4, and 5 ounce (48 cans)	18,752	91,129
5¾-ounce (48 cans)	571,072	2,583,495
8¼ to 9¾ ounce (24 cans)	6,341	28,412
Other sizes (standard cases)	7,141	51,700
In glass, wet:		
5¼-ounce (24 cans)	75,802	330,298
5¾-ounce (24 cans)	7,333	21,408
Other sizes (standard cases)	2,315	22,415
Total		3,982,247

NOTE.—"Standard cases" represent the various sized cases converted to the equivalent of 5-ounce cans, 48 to the case, in the dry pack and 5¾-ounce cans, 48 to the case, in the wet pack. Shrimp were canned at 2 plants in South Carolina, 5 in Georgia, 6 in Florida, 2 in Alabama, 15 in Mississippi, 19 in Louisiana, and 6 in Texas.

Pack of canned oysters, 1931

STANDARD CASES

State	Cases	Value	State	Cases	Value
North Carolina, Georgia, and Florida	16,388	$50,218	Louisiana	24,415	$85,278
South Carolina	74,186	224,248	Washington	7,930	40,805
Alabama	23,551	75,332	Total	306,278	963,525
Mississippi	159,808	487,644			

ACTUAL CASES

Size	Cases	Value
4-ounce (48 cans)	37,388	$102,233
5-ounce (48 cans)	219,521	669,512
6-ounce (48 cans)	2,717	13,653
8-ounce (24 cans)	22,557	74,892
10-ounce (24 cans)	35,543	103,235
Total		963,525

NOTE.—"Standard cases" represent the various sized cases converted to the equivalent of 5-ounce cans, 48 to the case. Oysters were canned at 1 plant in North Carolina, 7 in South Carolina, 2 in Georgia, 2 in Florida, 3 in Alabama, 16 in Mississippi, 8 in Louisiana, and 4 in Washington. The pack during the spring period (January to May, 1931) amounted to 238,850 standard cases, valued at $757,468 and that during the fall period (September to December, 1931) amounted to 67,428 standard cases, valued at $206,057. The pack during the spring period of 1930 amounted to 333,174 standard cases, valued at $1,605,647 and during the fall period of 1930, 63,000 standard cases, valued at $231,215.

Pack of canned clams and clam products, 1931

Item and State	Cases	Value
Razor clams (Washington, Oregon, and Alaska):		
Whole—		
No. 1, 5-ounce (48 cans)	3,819	$37,808
No. 2, 10-ounce (24 cans)	140	1,260
Other sizes (standard cases)	104	822
Minced—		
½-pound flat, 4-ounce (48 cans)	61,254	427,428
No. 1, 5-ounce (48 cans)	20,712	176,058
No. 2, 10-ounce (24 cans)	1,056	9,188
Other sizes (standard cases)	2,307	21,873
Juice—All sizes (standard cases)	364	1,120
Total	89,756	675,557
Total (standard cases)	77,505	
Hard clams (Rhode Island, New York, New Jersey, Georgia, Florida, Washington, and Alaska):[1]		
Whole—		
No. 1, 5-ounce (48 cans)	4,670	39,833
1-pound 8-ounce (48 cans)	3,133	21,751
No. 2, 10-ounce (24 cans)	7,700	48,312
No. 10, 52-ounce (6 cans)	4,250	21,250
Other sizes (standard cases)	763	3,879
Minced—		
No. 1, 5-ounce (48 cans)	908	6,801
No. 2, 10-ounce (24 cans)	1,483	10,383
Other sizes (standard cases)	5,997	38,787
Chowder—		
No. 1, 10-ounce (48 cans)	163,857	604,266
33-ounce (24 jars)	133	1,319
Other sizes (standard cases)	56,291	234,384
Juice—		
No. 1, 10-ounce (48 cans)	527	1,716
No. 10, 102-ounce (6 cans)	1,697	5,489
Other sizes (standard cases)	3,223	17,625
Cocktail—		
3 and 4 ounce (48 jars)	1,092	7,374
8-ounce (24 jars)	249	1,387
Other sizes (standard cases)	216	2,513
Broth and bouillon[1]—		
3½ and 4 ounce (48 jars)	299	1,302
10-ounce (48 jars)	1,148	6,411
Other sizes (standard cases)	3,082	16,311
Total	260,718	1,091,093
Total (standard cases)	263,377	
Soft clams (Maine and Massachusetts):		
Whole—		
No. 1, 5-ounce (48 cans)	66,333	240,763
1-pound 8-ounce (48 cans)	7,945	46,734
No. 2, 10-ounce (24 cans)	10,159	34,473
Other sizes (standard cases)	9,501	20,793
Chowder—		
No. 1, 10-ounce (48 cans)	17,082	53,856
No. 2, 20-ounce (24 cans)	1,132	3,923
Other sizes (standard cases)	27,180	54,898
Bouillon and juice—		
No. 2, 20-ounce (24 cans)	5,788	10,419
Other sizes (standard cases)	8,951	24,400
Total	154,071	490,259
Total (standard cases)	159,158	
Grand total (standard cases)	500,040	2,256,909

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[1] Includes a small amount of coquina broth packed in Florida.

NOTE.—"Standard cases" represent the various sized cases converted to the equivalent of 5-ounce cans, 48 No. 1 to the case, for whole and minced clams; and 48 No. 1, 10-ounce cans to the case, for other clam products. Razor clam products were canned at 12 plants in Washington, 5 in Oregon, and 6 in Alaska; hard clam products, at 1 plant in Rhode Island, 3 in New York, 1 in New Jersey, 1 in Georgia, 1 in Florida, 5 in Washington, and 1 in Alaska; soft clam products, at 21 plants in Maine and 2 in Massachusetts; and coquina clam products, at 2 plants in Florida.

Pack of miscellaneous canned fishery products in the United States and Alaska, 1931

Item	Standard cases	Value	Item	Standard cases	Value
Mackerel	102, 392	$246, 848	Salmon eggs (for bait)	5, 246	$149, 186
Shad	747	2, 091	Sturgeon caviar [2]	4, 630	609, 502
Shad roe	2, 100	63, 060	Whitefish roe and caviar	829	23, 498
Fish flakes	28, 486	514, 553	Miscellaneous roe and caviar [3]	1, 966	13, 896
Fish cakes, balls, etc	103, 704	779, 411	Crabs	646	12, 817
Cat and dog food	52, 509	143, 345	Turtle products	4, 058	74, 945
Miscellaneous fish [1]	7, 425	63, 974	Miscellaneous shellfish [4]	11, 839	82, 608
Salmon roe and caviar	3, 360	30, 486	Total	329, 937	2, 810, 220

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[1] Includes canned carp, eels, fillets, finnan haddie, smoked salmon, anchovy paste, halibut and salmon fish pudding, haddock chowder, and bait herring and candlefish.

[2] Produced principally from imported sturgeon.

[3] Includes canned fish roe from various species of ground fish and imported roe from fish other than sturgeon.

[4] Includes canned terrapin products, mussels, abalone, squid, and shrimp creole gumbo.

NOTE.—"Standard cases" represent the various sized cases converted to the equivalent of 1-pound cans, 48 to the case.

Production of miscellaneous by-products, 1931

Product	Atlantic and Gulf coasts		Pacific coast (including Alaska)		Total	
	Quantity	Value	Quantity	Value	Quantity	Value
Dried scrap:						
Alewife, tons	515	$19, 113			515	$19, 113
Crab, blue, and king, do	3, 178	62, 364			3, 178	62, 364
Miscellaneous [1], do	516	17, 030			516	17, 030
Meal:						
Herring (Alaska), do			7, 911	$272, 825	7, 911	272, 825
Herring (Maine), do	1, 398	34, 540			1, 398	34, 540
Pilchard, do			16, 319	610, 462	16, 319	610, 462
Salmon, do			2, 435	108, 682	2, 435	108, 682
Tuna, do			5, 078	169, 505	5, 078	169, 505
Ground fish, do	10, 928	646, 252			10, 928	646, 252
Shrimp, do	[2] 1, 282	[2] 24, 985	(2)	(2)	1, 282	24, 985
Miscellaneous [3], do	1, 466	58, 535	2, 376	119, 411	3, 842	177, 946
Miscellaneous green scrap [4], do	917	4, 757			917	4, 757
Oil:						
Alewife, gallons	16, 696	2, 598			16, 696	2, 598
Cod and cod-liver, do	95, 809	62, 600			95, 809	62, 600
Herring (Alaska), do			2, 152, 706	376, 582	2, 152, 706	376, 582
Herring (Maine), do	91, 003	12, 249			91, 003	12, 249
Pilchard, do			3, 916, 336	807, 647	3, 916, 336	807, 647
Salmon, do			250, 871	41, 129	250, 871	41, 129
Tuna, do			15, 939	3, 296	15, 939	3, 296
Miscellaneous [5], do	8, 470	5, 705	36, 031	5, 822	44, 501	11, 527
Liquid glue, do	[6] 433, 030	[6] 1, 043, 290	(6)	(6)	433, 030	1, 043, 290
Miscellaneous by-products [7], pounds	404, 630	34, 860	32, 304	365, 407	436, 934	400, 267
Total		2, 028, 878		2, 880, 768		4, 909, 646

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[1] Includes ground fish and miscellaneous dried scrap.

[2] A small quantity of shrimp meal produced in California is included with the production of the Atlantic and Gulf coasts.

[3] Includes king crab meal, clam meal, mackerel meal, salmon egg and liver meal, fish flour, and miscellaneous meal.

[4] Includes herring pomace (Maine), herring waste (Maine), and miscellaneous green scrap.

[5] Includes tanners oil, shark oil, mackerel oil, and miscellaneous oil.

[6] A quantity of liquid glue produced by one firm in California is included with the production of the Atlantic and Gulf coasts.

[7] Includes herring skins and scales, fish scale ornaments, shark skins and fins, ground clam shells, agar-agar and kelp products.

NOTE.—The oils produced on the Pacific coast are reported in trade gallons (7½ pounds) and those produced on the Atlantic and Gulf coasts are reported in United States gallons (about 7.74 pounds).

Production of oyster-shell products, 1931

State	Crushed oyster shell for poultry feed		Oyster-shell lime		Total	
	Tons	Value	Tons	Value	Tons	Value
Rhode Island and New Jersey	6,700	$69,270	1,760	$7,620	8,460	$76,890
Pennsylvania	4,123	44,822	1,453	6,166	5,576	50,988
Maryland	34,045	235,024	15,593	32,668	49,638	267,692
Virginia	19,941	175,669	[1] 23,702	149,370	43,643	325,039
North Carolina and South Carolina	7,263	66,193	525	2,670	7,788	68,863
Florida and California	47,204	252,952	2,215	7,869	49,419	260,821
Alabama and Texas	7,824	48,381	1,075	925	8,899	49,306
Mississippi	32,801	224,200	1,855	1,000	34,656	225,200
Louisiana	93,729	654,027	4,421	13,198	98,150	667,225
Total	253,630	1,770,538	52,599	221,486	306,229	1,992,024

[1] Of this amount, 11,207 tons, valued at $85,884, were reported as "burned" lime.

NOTE.—Crushed oyster-shell products were prepared at 2 plants in Rhode Island, 5 in New Jersey, 5 in Pennsylvania, 6 in Maryland, 8 in Virginia, 3 in North Carolina, 4 in South Carolina, 3 in Florida, 2 in Alabama, 6 in Mississippi, 4 in Louisiana, 1 in Texas, and 3 in California.

Production of fresh-water mussel-shell products, 1931

Item	Iowa		New York		Other States		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Pearl buttons ..... gross	11,088,981	$3,356,426	4,517,622	$1,116,894	1,081,893	$267,494	16,688,496	$4,740,814
Crushed shell for poultry feed ..... tons	9,871	90,661			305	2,353	10,176	93,014
Lime ..... do	9,091	9,091	(1)	(1)	[1] 267	[1] 486	9,358	9,577
Other products [2]		126,835						126,835
Total		3,583,013		1,116,894		270,333		4,970,240

[1] A small production made in New York has been included with "Other States."
[2] Includes stucco, colored shells, and "pearl novelties."

Production of marine pearl-shell products,[1] 1931

Item	Maine, Massachusetts, and Connecticut		Rhode Island		New York		New Jersey	
	Gross	Value	Gross	Value	Gross	Value	Gross	Value
Pearl buttons	1,328,513	$964,520			98,764	$100,295	1,310,536	$1,017,334
Novelties [2]		103,845		$18,067		37,848		322,329
Total		1,068,365		18,067		138,143		1,339,663

Item	Pennsylvania, Maryland, and Florida		California		Total	
	Gross	Value	Gross	Value	Gross	Value
Pearl buttons	1,741,650	$801,515			4,479,463	$2,883,664
Novelties [2]		148,777		$38,373		669,239
Total		950,292		38,373		3,552,903

[1] Produced principally from imported shells.
[2] Includes buckles, inlays for jewelry, knife handles, lamps, handles for manicure sets, ornaments, etc.

NOTE.—Marine pearl-shell products were manufactured at 1 plant in Maine, 2 in Massachusetts, 3 in Rhode Island, 6 in Connecticut, 10 in New York, 23 in New Jersey, 3 in Pennsylvania, 1 in Maryland, 3 in Florida, and 3 in California.

Fish utilized and products of the menhaden industry, 1931

State	Menhaden utilized	Products						
		Dry scrap and meal		Acidulated scrap		Oil		Total
	Number	*Tons*	*Value*	*Tons*	*Value*	*Gallons*	*Value*	*Value*
New Jersey, Delaware, South Carolina, and Georgia	69, 540, 000	2, 140	$83, 812	6, 487	$94, 181	397, 028	$63, 891	$241, 884
Virginia	155, 801, 000	11, 373	366, 107			1, 122, 974	169, 471	535, 578
North Carolina	45, 099, 000	2, 747	92, 417	865	14, 449	283, 659	40, 165	147, 031
Florida	82, 444, 000	4, 833	159, 205	1, 419	27, 763	178, 129	28, 781	215, 749
Total	[1] 352, 884, 000	[2] 21, 093	701, 541	8, 771	136, 393	1, 981, 790	302, 308	1, 140, 242

[1] 211,730,400 pounds.

[2] Of this quantity 18,185 tons, valued at $586,413, were reported as dry scrap, and 2,908 tons, valued at $115,128, as fish meal.

NOTE.—The menhaden factories were located as follows: 2 in New Jersey, 1 in Delaware, 8 in Virginia, 9 in North Carolina, 1 in South Carolina, 1 in Georgia, and 5 in Florida.

PACKAGED-FISH TRADE

In 1931, the production of fresh, frozen, and smoked packaged fish in the United States amounted to 65,550,700 pounds, valued at $9,223,507. The most important species packaged was haddock, which alone accounted for 42,976,541 pounds valued at $6,095,930.

Production of fresh, frozen, and smoked packaged fish in the United States, 1931

Species	Maine		Massachusetts and Connecticut		New York	
	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike					172, 400	$36, 537
Cod	350, 426	$55, 079	6, 797, 265	$834, 253	2, 247, 346	330, 703
Cusk	209, 025	34, 850	1, 275, 566	188, 939		
Flounders, including "sole"	(1)	(1)	[1] 929, 545	[1] 190, 149	511, 080	90, 670
Haddock	426, 439	70, 257	39, 480, 663	5, 570, 200	2, 879, 939	427, 187
Hake	292, 295	38, 168	1, 944, 252	214, 129	1, 425, 293	166, 936
Halibut			474, 973	85, 343		
Mackerel			[2] 136, 063	[2] 23, 869		
Pollock			445, 923	43, 422		
Salmon			222, 038	41, 242		
Wolffish			199, 554	23, 603		
Yellow perch					(4)	(4)
Miscellaneous [5]			1, 161, 177	89, 154		
Total	1, 278, 185	198, 354	53, 067, 014	7, 304, 303	7, 236, 058	1, 052, 033

Species	Pennsylvania		Virginia and North Carolina		Florida, Alabama, and Texas	
	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike	649, 393	$124, 999				
Croaker			49, 170	$5, 593		
Drum, red or redfish					8, 200	$1, 568
Flounders, including "sole"			37, 900	5, 393		
Groupers					154, 000	22, 200
Haddock			189, 500	28, 286		
Mullet					19, 000	2, 800
Sea bass			27, 030	4, 157		
Snapper, red					[3] 149, 553	[3] 28, 822
Spanish mackerel					15, 500	3, 140
Squeteague or "sea trout"			597, 000	58, 048	24, 000	7, 160
Yellow perch	[4] 41, 560	[4] 8, 261				
Miscellaneous [5]			11, 000	1, 021	35, 715	9, 483
Total	690, 953	133, 260	911, 600	102, 498	405, 968	75, 173

See footnotes at end of table.

Production of fresh, frozen, and smoked packaged fish in the United States, 1931—Continued

Species	Ohio, Illinois, Minnesota, and Wisconsin		California and Washington		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike	703,922	$136,305			1,525,715	$297,841
Cod					9,395,037	1,220,035
Croaker					49,170	5,593
Cusk					1,484,591	223,789
Drum, red or redfish					8,200	1,568
Flounders, including "sole"					1,478,525	286,212
Groupers					154,000	22,200
Haddock					42,976,541	6,095,930
Hake					3,661,840	419,233
Halibut			142,000	$20,000	616,973	105,343
Mackerel			(2)	(2)	136,063	23,869
Mullet					19,000	2,800
Pollock					445,923	43,422
Salmon			80,000	10,150	302,033	51,392
Sea bass					27,030	4,157
Snapper, red			(3)	(3)	149,553	28,822
Spanish mackerel					15,500	3,140
Squeteague or "sea trout"					621,000	65,208
Wolffish					199,554	23,603
Yellow perch	826,945	156,718			868,505	164,979
Yellow pike	24,000	5,100			24,000	5,100
Miscellaneous [5]	35,690	6,255	148,365	23,358	1,391,947	129,271
Total	1,590,557	304,378	370,365	53,508	[6] 65,550,700	[6] 9,223,507

[1] A small amount of flounders in Maine has been included with Massachusetts and Connecticut.

[2] A small amount of mackerel in California has been included with Massachusetts and Connecticut.

[3] A small amount of red snapper in Washington has been included with Florida, Alabama, and Texas.

[4] A small amount of yellow perch in New York has been included with Pennsylvania.

[5] Includes amberfish, bluefish, butterfish, cabio, frog legs, jewfish, lake herring, lake trout, "lingcod," mangrove snapper, pinfish, pompano, sablefish, sauger pike, sheepshead, snook, spots, swordfish, tripletail, whitefish, whiting, and a small amount of mixed fish.

[6] Of this amount 61,928,737 pounds, valued at $8,761,731, were fillets; 1,142,521 pounds, valued at $154,895, were dressed or pan dressed; 1,837,224 pounds, valued at $204,386, were sticks; 495,193 pounds, valued at $77,271, were steaks; and 147,025 pounds, valued at $25,224, were prepared by other methods. Of the total quantity of fillets prepared 44,437,899 pounds, valued at $6,364,430, were fresh; 15,451,637 pounds, valued at $2,071,684, were frozen; and 2,039,201 pounds, valued at $325,617, were smoked. Of the dressed and pan dressed 596,229 pounds, valued at $63,768, were fresh; 502,308 pounds, valued at $84,529, were frozen; and 43,984 pounds, valued at $6,598, were smoked. Of the sticks, 686,680 pounds, valued at $117,844, were fresh; and 1,150,544 pounds, valued at $86,542, were frozen. Of the steaks, 62,000 pounds, valued at $14,620, were fresh and 433,193 pounds, valued at $62,651, were frozen. There were prepared by other methods 147,025 pounds, valued at $25,224.

NOTE.—Fish products were packaged at 6 plants in Maine; 58 in Massachusetts; 35 in New York; 1 in Connecticut; 8 in Pennsylvania; 6 in Virginia; 1 in North Carolina; 7 in Florida; 1 in Alabama; 23 in Ohio; 1 in Illinois; 1 in Minnesota; 2 in Wisconsin; 3 in California; and 5 in Washington—a total of 158 plants.

FROZEN-FISH TRADE

FISH FROZEN

In 1931 the freezing plants in the United States and Alaska, reporting their activities to the Government, packed 112,257,416 pounds of frozen fishery products. These products at the time they were held in cold-storage plants were estimated to be valued at $11,000,000. Compared with the pack in 1930, which was the largest frozen pack of fishery products on record, this is a decrease of 19 per cent in the volume of the pack. Over 60 per cent of the pack consisted of six groups of fishery products. Of first importance was the cod, haddock, haddock fillets, hake, and pollock group with 14 per cent of the total. Haddock fillets accounted for the bulk of the volume of this group. Of next importance were the salmons and halibut, each with 12 per cent of the total. Mackerel made up 11 per cent of the total; whiting, 7 per cent; and sea herring, 6 per cent. Considerable quantities of shellfish; weakfish, including southern "sea trout"; cisco or lake herring; butterfish; and squid, also were frozen. Frozen squid and sea herring are marketed primarily for bait, although quantities of each are used for human consumption.

Production of frozen fishery products, 1931

BY SPECIES AND MONTHS

Species	Month ended the 15th of—						
	January	February	March	April	May	June	July
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Bluefish (all trade sizes)	10, 672	14, 313	8, 013	2, 574	20, 965	11, 968	7, 098
Butterfish (all trade sizes)	9, 110	8, 986	2, 419	3, 643	35, 965	496, 044	222, 197
Catfish	45, 135	18, 655	10, 861	3, 831	84, 679	66, 645	82, 324
Cisco (Lake Erie)	15, 620	----------	----------	----------	929	362	7, 641
Cisco (lake herring), including bluefin, blackfin, and chub	88, 429	102, 893	22, 354	4, 393	20, 952	47, 616	48, 726
Cisco (tullibees, Canadian lakes)	45, 508	65, 356	42, 653	2, 097	22, 976	1, 741	18, 448
Cod, haddock, hake, pollock	256, 763	45, 732	72, 695	98, 060	113, 987	91, 578	174, 754
Croaker	6, 028	10, 570	42, 144	6, 508	528, 525	173, 570	155, 249
Flounders	53, 818	7, 179	12, 717	11, 656	198, 399	292, 991	98, 302
Haddock fillets	650, 238	455, 758	363, 271	1, 576, 376	1, 749, 624	1, 103, 885	1, 560, 296
Halibut (all trade sizes)	339, 931	213, 250	59, 716	275, 795	2, 459, 219	2, 140, 703	2, 357, 612
Herring, sea (including alewives and bluebacks)	124, 435	43, 093	51, 715	168, 644	963, 268	467, 725	361, 740
Lake trout	20, 762	7, 623	3, 561	93, 902	50, 356	23, 403	82, 583
Mackerel (except Spanish)	149, 693	162, 449	103, 755	99, 314	48, 507	776, 093	2, 507, 914
Pike, blue and sauger	28, 232	2, 639	5, 292	2, 728	429, 975	130, 241	36. 088
Pike, yellow or wall-eyed	59, 546	57, 987	26, 895	57, 248	55, 640	23, 493	20, 480
Pike (including pickerel, jacks, and yellow jack)	51, 917	58, 091	46, 352	34, 234	54, 175	15, 499	20, 171
Sablefish (black cod)	18, 474	140, 032	11, 283	9, 774	48, 667	29, 316	91, 762
Salmon, chinook	420	6, 782	4, 758	2, 170	122, 208	113, 365	389, 876
Salmon, silver	71, 945	99, 149	36, 763	19, 344	28, 232	46, 408	86, 312
Salmon, fall and pink	53, 304	48, 827	20, 858	16, 135	14, 517	41, 485	16, 010
Salmon, steelhead trout	57, 190	770	7, 365	9, 911	18, 691	18, 748	372, 381
Salmon, all other	58, 140	59, 435	161, 985	137, 836	155, 848	544, 228	340, 957
Scup (porgies)	3, 052	1, 243	4, 238	297	3, 075	156, 834	48, 412
Shad and shad roe	86, 017	13, 395	25, 665	34, 150	84, 092	166, 630	72, 648
Shellfish	607, 824	176, 215	151, 366	133, 698	288, 642	516, 073	475, 357
Smelts, eulachon, etc	316, 396	380, 248	285, 680	42, 715	3, 007	9, 078	5, 919
Squid	17, 791	6, 566	2, 767	95, 824	292, 205	890, 960	142, 323
Sturgeon and spoonbill cat	68, 483	4, 715	1, 572	9, 530	43, 656	112, 233	70, 484
Suckers	18, 905	6, 929	----------	440	22, 269	4, 943	11, 920
Weakfish (including southern "sea trout")	24, 205	75, 452	70, 745	32, 981	157, 565	215, 779	45, 153
Whitefish	83, 442	44, 251	56, 904	10, 862	79, 587	86, 838	208, 412
Whiting	96, 484	249, 117	279, 717	330, 770	131, 683	2, 782, 800	1, 983, 218
Miscellaneous fish	768, 512	572, 420	493, 794	653, 797	1, 522, 864	1, 360, 626	1, 204, 694
Total	4, 306, 421	3, 160, 120	2, 489, 873	3, 980, 966	9, 854, 949	12, 959, 901	13, 327, 461

Species	Month ended the 15th of—					
	August	September	October	November	December	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Bluefish (all trade sizes)	246, 005	314, 737	401, 153	169, 072	27, 998	1, 234, 568
Butterfish (all trade sizes)	300, 713	197, 986	148, 744	519, 711	167, 963	2, 113, 301
Catfish	45, 359	90, 523	101, 960	65, 812	58, 455	674, 239
Cisco (Lake Erie)	43, 521	40, 127	15, 910	45, 986	66, 429	236, 525
Cisco (lake herring), including bluefin, blackfin, and chub	117, 178	84, 072	195, 187	681, 730	897, 785	2, 311, 315
Cisco (tullibees, Canadian lakes)	20, 609	18, 007	18, 905	35, 812	44, 533	336, 645
Cod, haddock, hake, pollock	410, 836	201, 670	481, 146	431, 669	452, 096	2, 830, 986
Croaker	417, 140	247, 826	58, 183	47, 033	11, 065	1, 703, 841
Flounders	44, 637	85, 453	156, 813	98, 174	94, 938	1, 154, 986
Haddock fillets	1, 656, 055	1, 277, 577	940, 073	665, 155	945, 489	12, 943, 797
Halibut (all trade sizes)	2, 480, 697	1, 447, 465	572, 764	431, 831	200, 709	12, 979, 692
Herring, sea (including alewives and bluebacks)	1, 050, 573	825, 881	942, 705	1, 691, 225	452, 184	7, 143, 188
Lake trout	35, 033	29, 585	140, 088	580, 898	227, 718	1, 295, 512
Mackerel (except Spanish)	1, 745, 618	5, 041, 176	1, 291, 930	284, 915	140, 972	12, 352, 336
Pike, blue and sauger	59, 369	19, 473	75, 950	283, 567	356, 010	1, 429, 564
Pike, yellow or wall-eyed	7, 007	10, 155	108, 567	63, 709	43, 040	533, 767
Pike (including pickerel, jacks, and yellow jack)	25, 842	3, 316	75, 568	78, 697	35, 656	499, 518

Production of frozen fishery products, 1931—Continued

BY SPECIES AND MONTHS—Continued

Species	Month ended the 15th of—					
	August	September	October	November	December	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Sablefish (black cod)	155, 108	179, 543	368, 641	473, 652	224, 031	1, 750, 283
Salmon, chinook	388, 221	135, 865	33, 675	32, 748	2, 389	1, 232, 477
Salmon, silver	895, 271	1, 534, 794	1, 481, 338	739, 064	70, 311	5, 108, 931
Salmon, fall and pink	387, 609	159, 511	82, 997	1, 226, 023	82, 279	2, 149, 555
Salmon, steelhead trout	630, 273	298, 125	55, 035	11, 517	5, 160	1, 485, 166
Salmon, all other	575, 117	481, 704	237, 341	234, 280	47, 488	3, 034, 359
Scup (porgies)	56, 698	59, 479	35, 730	25, 810	3, 219	398, 087
Shad and shad roe	114, 756	41, 283	41, 638	65, 603	20, 677	766, 554
Shellfish	219, 617	390, 320	607, 655	1, 160, 985	982, 730	5, 710, 482
Smelts, eulachon, etc	3, 104	15, 334	40, 133	45, 866	184, 874	1, 332, 354
Squid	91, 596	139, 471	40, 576	110, 496	44, 408	1, 874, 983
Sturgeon and spoonbill cat	23, 484	19, 719	29, 238	18, 365	8, 091	409, 570
Suckers	1, 005	470	4, 471	12, 059	6, 251	89, 662
Weakfish (including southern "sea trout")	318, 437	514, 038	438, 142	369, 263	78, 368	2, 340, 128
Whitefish	59, 623	125, 895	59, 774	67, 098	194, 735	1, 077, 421
Whiting	610, 948	318, 720	591, 971	393, 733	141, 983	7, 911, 144
Miscellaneous fish	983, 014	1, 273, 676	1, 416, 281	1, 807, 838	1, 754, 964	13, 812, 480
Total	14, 220, 073	15, 622, 976	11, 290, 282	12, 969, 396	8, 074, 998	112, 257, 416

BY GEOGRAPHICAL SECTIONS AND SPECIES [1]

[Expressed in thousands of pounds; that is, 000 omitted]

Species	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific	Total
Bluefish (all trade sizes)	30	1, 120	12	70	2			1, 234
Butterfish (all trade sizes)	390	1, 638	49	34	2			2, 113
Catfish	47	5	175	109	318	20		674
Cisco (Lake Erie)		237						237
Cisco (lake herring), including bluefin, blackfin, and chub		382		1, 407	522			2, 311
Cisco (tullibees, Canadian lakes)	50	106	20	97	63	1		337
Cod, haddock, hake, pollock	2, 226	316	2	76	44	3	164	2, 831
Croaker		731	897	76				1, 704
Flounders	456	664	1	15			19	1, 155
Haddock fillets	11, 949	261	11	351	244	17	111	12, 944
Halibut (all trade sizes)	254	604	2	931	90	1	11, 098	12, 980
Herring, sea (including alewives and bluebacks)	5, 358	321	4	373		2	1, 085	7, 143
Lake trout		133	12	909	238	1	3	1, 296
Mackerel (except Spanish)	10, 599	1, 267	1	124	26		335	12, 352
Pike, blue and sauger		992		383		5	50	1, 430
Pike, yellow or wall-eyed		76		174	284			534
Pike (including pickerel, jacks, and yellow jack)		16		113	371			500
Sablefish (black cod)		1		127	38		1, 584	1, 750
Salmon, Chinook	16	15		38	7		1, 156	1, 232
Salmon, silver	34	235		90	49		4, 701	5, 109
Salmon, fall and pink	100	15		66	64		1, 905	2, 150
Salmon, steelhead trout	2	37	1	3			1, 442	1, 485
Salmon, all other	87	325	8	112	19		2, 483	3, 034
Scup (porgies)	62	335		1				398
Shad and shad roe	251	256	4	61	2	2	191	767
Shellfish	497	2, 392	849	838	272	9	853	5, 710
Smelts, eulachon, etc	38	1, 143		59	4		88	1, 332
Squid	1, 096	758		9			12	1, 875
Sturgeon and spoonbill cat		194	10	22	58	98	28	410
Suckers		1		82		7		90
Weakfish (including southern "sea trout")		2, 085	255					2, 340
Whitefish	24	398	28	580	47			1, 077
Whiting	5, 899	791	12	10	1, 199			7, 911
Miscellaneous fish	1, 917	2, 492	2, 144	2, 798	708	1, 509	2, 244	13, 812
Total	41, 382	20, 342	4, 497	10, 138	4, 671	1, 675	29, 552	112, 257

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[1] New England includes the 6 States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin; North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, and Arkansas; Pacific—Washington, Oregon, California, and Alaska.

Production of frozen fishery products, 1931—Continued

BY GEOGRAPHICAL SECTIONS AND MONTHS[1]

[Expressed in thousands of pounds; that is, 000 omitted]

Month ended the 15th of—	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific	Total
January	992	1,344	298	708	333	113	518	4,306
February	470	1,061	69	370	490	58	642	3,160
March	277	1,011	12	200	406	112	472	2,490
April	1,687	560	23	287	542	93	789	3,981
May	2,947	1,695	416	954	457	256	3,130	9,855
June	5,658	2,574	283	832	344	217	3,052	12,960
July	6,648	1,239	433	724	299	286	3,699	13,328
August	5,727	1,309	770	475	271	60	5,608	14,220
September	8,266	1,820	535	367	261	61	4,313	15,623
October	4,199	2,488	310	1,029	251	147	2,866	11,290
November	2,685	3,376	459	1,885	684	159	3,721	12,969
December	1,826	1,865	889	2,307	333	113	742	8,075
Total	41,382	20,342	4,497	10,138	4,671	1,675	29,552	112,257

[1] New England includes the 6 States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin; North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, and Arkansas; Pacific—Washington, Oregon, California, and Alaska.

HOLDINGS

During 1931 the average monthly holdings of frozen fish and shellfish were 12 per cent less than the average monthly holdings during 1930, and 5 per cent greater than the 5-year average of monthly holdings. Individual monthly holdings during the year were above normal for 7 months of the year when compared with the 5-year average, being from less than 1 to 27 per cent higher. Compared with the respective monthly holdings in 1930, they were from 8 to 15 per cent greater during 4 months of the year, and 8 to 27 per cent less during the remaining 8 months of the year. Monthly holdings in 1931 were largest in January and from September to December, inclusive, being, in some instances, over double those for certain months from February to August, inclusive. A maximum of 74,725,000 pounds was held on November 15, and a minimum of 28,095,000 pounds on April 15. Holdings during the year averaged 54,999,000 pounds monthly.

Holdings of frozen fishery products, by species and months, 1931

Species	Month ended the 15th of—					
	January	February	March	April	May	June
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Bluefish (all trade sizes)	514,141	403,792	240,335	134,267	119,865	100,588
Butterfish (all trade sizes)	534,291	366,585	169,185	79,589	55,300	521,562
Catfish	491,776	389,900	203,073	111,294	141,012	190,344
Cisco (Lake Erie)	275,251	245,672	99,781	61,335	45,151	41,227
Cisco (lake herring), including bluefin, blackfin, and chub	1,795,845	1,361,049	1,013,578	620,060	484,270	443,304
Cisco (tullibees, Canadian lakes)	1,294,644	1,218,217	812,210	474,664	534,572	688,762
Cod, haddock, hake, pollock	1,914,169	1,716,179	1,290,678	1,037,708	986,832	915,664
Croaker	919,201	591,923	221,291	126,622	609,136	755,777
Flounders	728,018	599,741	469,915	326,060	413,981	593,120
Haddock fillets	6,650,017	5,469,663	4,216,387	4,349,429	5,006,965	4,851,787
Halibut (all trade sizes)	7,223,395	4,665,669	2,422,259	2,196,011	4,188,499	6,110,776

Holdings of frozen fishery products, by species and months, 1931—Continued

Species	Month ended the 15th of—					
	January	February	March	April	May	June
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Herring, sea (including alewives and bluebacks)	2, 796, 289	2, 291, 366	1, 767, 238	1, 306, 644	1, 648, 639	1, 373, 827
Lake trout	1, 649, 411	1, 358, 140	919, 804	693, 912	647, 414	626, 000
Mackerel (except Spanish)	4, 781, 239	3, 333, 710	1, 834, 634	574, 224	489, 709	1, 141, 368
Pike, blue and sauger	1, 349, 446	936, 956	388, 509	244, 341	644, 549	801, 246
Pike, yellow or wall-eyed	531, 545	531, 066	338, 815	338, 214	349, 569	332, 096
Pike (including pickerel, jacks, and yellow jack)	373, 099	552, 150	484, 205	444, 077	339, 892	349, 267
Sablefish (black cod)	1, 659, 105	1, 465, 153	1, 077, 947	850, 554	755, 714	614, 151
Salmon, chinook	1, 443, 991	1, 108, 282	659, 155	421, 734	444, 849	482, 145
Salmon, silver	3, 481, 184	2, 377, 032	1, 029, 002	556, 329	342, 932	343, 642
Salmon, fall and pink	1, 708, 354	1, 271, 128	697, 483	527, 860	455, 408	435, 244
Salmon, steelhead trout	509, 124	401, 632	253, 826	227, 291	224, 569	201, 870
Salmon, all other	2, 156, 548	1, 044, 138	636, 463	506, 318	512, 622	891, 977
Scup (porgies)	516, 332	426, 441	287, 220	47, 845	32, 862	182, 055
Shad and shad roe	642, 352	528, 886	296, 783	191, 992	226, 076	364, 329
Shellfish	2, 740, 682	2, 334, 991	1, 610, 745	998, 482	945, 209	1, 323, 069
Smelts, eulachon, etc	804, 898	972, 478	1, 207, 839	488, 468	419, 154	400, 278
Squid	2, 021, 826	1, 668, 707	1, 229, 775	687, 483	737, 914	1, 582, 234
Sturgeon and spoonbill cat	869, 702	786, 085	688, 084	625, 000	488, 104	629, 570
Suckers	121, 675	101, 209	88, 532	68, 420	63, 754	68, 191
Weakfish (including southern "sea trout")	1, 976, 996	1, 321, 749	559, 304	78, 663	212, 630	399, 125
Whitefish	1, 359, 770	1, 319, 975	1, 249, 596	753, 946	617, 918	608, 143
Whiting	6, 017, 992	4, 885, 675	3, 743, 028	2, 777, 158	2, 371, 354	4, 684, 762
Miscellaneous fish	9, 964, 897	8, 514, 701	6, 360, 212	5, 169, 423	5, 726, 970	6, 336, 844
Total	71, 817, 205	56, 560, 040	38, 566, 891	28, 095, 417	31, 283, 394	39, 384, 344

Species	Month ended the 15th of—					
	July	August	September	October	November	December
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Bluefish (all trade sizes)	78, 718	303, 419	788, 439	1, 124, 417	1, 136, 460	1, 017, 132
Butterfish (all trade sizes)	708, 736	988, 247	1, 161, 764	1, 255, 883	1, 655, 114	1, 607, 098
Catfish	273, 718	298, 697	336, 209	398, 419	482, 594	498, 493
Cisco (Lake Erie)	25, 514	81, 791	185, 157	297, 683	211, 412	291, 221
Cisco (lake herring), including bluefin, blackfin, and chub	609, 709	650, 558	705, 562	881, 118	1, 389, 160	1, 921, 049
Cisco (tullibees, Canadian lakes)	616, 432	666, 183	596, 826	462, 268	462, 939	511, 840
Cod, haddock, hake, pollock	952, 208	1, 313, 692	1, 248, 284	1, 342, 961	1, 311, 660	1, 380, 124
Croaker	894, 146	1, 221, 064	1, 371, 934	1, 304, 078	1, 206, 702	1, 057, 562
Flounders	465, 614	447, 398	454, 763	498, 092	539, 280	501, 249
Haddock fillets	5, 463, 072	6, 337, 573	6, 424, 296	6, 179, 916	5, 265, 232	5, 583, 849
Halibut (all trade sizes)	8, 499, 702	10, 866, 432	11, 974, 153	11, 817, 147	10, 156, 830	7, 993, 672
Herring sea (including alewives and bluebacks)	1, 245, 567	1, 240, 802	1, 456, 337	2, 001, 653	2, 781, 550	2, 980, 793
Lake trout	631, 035	630, 132	629, 690	697, 027	1, 260, 563	1, 282, 097
Mackerel (except Spanish)	3, 648, 846	5, 290, 973	10, 528, 130	11, 470, 169	10, 560, 441	9, 790, 145
Pike, blue and sauger	507, 284	283, 739	149, 927	226, 268	391, 370	747, 865
Pike, yellow or wall-eyed	292, 100	262, 136	246, 964	342, 124	380, 546	349, 601
Pike (including pickerel, jacks, and yellow jack)	346, 125	351, 235	311, 554	344, 779	484, 522	534, 210
Sablefish (black cod)	615, 724	637, 550	803, 506	1, 042, 544	1, 334, 908	1, 294, 809
Salmon, chinook	804, 128	1, 116, 958	1, 199, 827	1, 129, 410	1, 025, 342	870, 019
Salmon, silver	387, 460	1, 234, 827	2, 688, 686	3, 956, 130	4, 318, 263	3, 564, 743
Salmon, fall and pink	464, 216	813, 119	904, 334	736, 212	1, 728, 769	1, 449, 004
Salmon, steelhead trout	531, 865	1, 115, 299	1, 265, 955	1, 323, 483	1, 176, 501	1, 008, 853
Salmon, all other	1, 087, 461	1, 542, 677	1, 811, 472	1, 932, 868	2, 005, 764	1, 744, 713
Scup (porgies)	228, 067	264, 900	328, 249	359, 272	368, 025	291, 122
Shad and shad roe	430, 255	483, 721	484, 539	536, 944	583, 123	547, 094
Shellfish	1, 450, 752	1, 215, 002	1, 231, 421	1, 395, 085	2, 228, 854	2, 753, 972
Smelts, eulachon, etc	408, 975	397, 740	390, 354	415, 547	402, 581	671, 572
Squid	1, 608, 563	1, 520, 308	1, 360, 238	1, 244. 559	1, 196, 147	1, 037, 326
Sturgeon and spoonbill cat	652, 057	676, 894	1, 012, 564	851, 521	490, 315	322, 373
Suckers	70, 062	54, 143	30, 844	39, 783	48, 737	44, 527
Weakfish (including southern "sea trout")	400, 110	676, 957	1, 142, 356	1, 536, 698	1, 869, 978	1, 502, 712
Whitefish	816, 142	930, 607	979, 733	966, 335	1, 068, 433	1, 298, 401
Whiting	6, 384, 450	6, 579, 190	6, 176, 934	6, 288, 959	6, 085, 647	5, 599, 689
Miscellaneous fish	6, 846, 633	7, 023, 572	7, 701, 521	8, 742, 733	9, 117, 227	10, 233, 469
Total	48, 445, 446	57, 517, 535	68, 082, 522	73, 144, 085	74, 724, 989	72, 362, 398

Monthly holdings of frozen fishery products, 1931, by geographical sections [1]

[Expressed in thousands of pounds; that is 000 omitted]

Month ended the 15th of—	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific [2]	Total
January	18,797	16,511	4,072	10,734	4,514	1,074	16,115	71,817
February	14,794	13,612	3,015	9,303	4,613	941	10,282	56,560
March	10,334	9,606	1,550	6,513	3,777	725	6,062	38,567
April	7,374	6,183	536	4,892	3,458	689	4,963	28,095
May	7,511	6,736	915	5,083	3,314	700	7,024	31,283
June	10,855	8,894	1,142	5,309	3,307	714	9,163	39,384
July	15,189	9,568	1,630	5,409	3,432	886	12,331	48,445
August	17,615	10,983	2,338	5,365	3,317	778	17,121	57,517
September	23,286	12,838	2,752	5,023	3,184	743	20,257	68,083
October	24,740	14,274	2,926	5,825	3,231	715	21,434	73,145
November	23,207	15,790	3,335	6,855	3,839	858	20,841	74,725
December	21,543	16,705	3,917	8,692	3,921	959	16,625	72,362
Average	16,271	11,808	2,344	6,584	3,659	815	13,518	54,999

[1] New England includes the 6 States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin; North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, and Arkansas; Pacific—Washington, Oregon, California, and Alaska.

[2] Includes a very small amount of fish held in Colorado in the Mountain section.

COLD-STORAGE HOLDINGS OF CURED FISH

Only cured herring and mild-cured salmon are reported held in cold-storage warehouses in the United States and Alaska. Other species are also held in cold storage, but no report is made on them to the Government as their volume reaches but small proportions. During 1931 the monthly holdings of cured herring varied between 11,093,000 pounds in July and 17,070,000 pounds in October. Monthly holdings of mild-cured salmon varied between 2,131,000 pounds in April and 6,952,000 pounds in October. The average monthly holdings of cured fish held in cold storage in 1931 were 12 per cent less than the average monthly holdings during the year 1930, and 24 per cent less than the 5-year average of monthly holdings. The respective monthly holdings in 1931 compared with the respective monthly holdings in 1930 show decreases of from 8 to 24 per cent with the exception of December, which shows an increase of less than one-half of 1 per cent. Compared with the respective normal monthly holdings there were decreases of from 15 to 35 per cent.

Holdings of cured fish, 1931, by species and months

Month ended the 15th of—	Cured herring	Mild-cured salmon	Total
	Pounds	*Pounds*	*Pounds*
January	13,725,701	4,566,769	18,292,470
February	12,920,892	3,818,845	16,739,737
March	11,763,133	2,810,112	14,573,245
April	11,379,111	2,130,664	13,509,775
May	12,295,824	2,277,581	14,573,405
June	12,020,472	3,494,996	15,515,468
July	11,093,454	4,083,623	15,177,077
August	13,020,236	6,333,197	19,353,433
September	15,387,573	6,926,350	22,313,923
October	17,070,455	6,951,711	24,022,166
November	15,660,290	6,470,950	22,131,240
December	15,525,499	5,732,539	21,258,038

FOREIGN FISHERY TRADE

Foreign trade in fishery products in the United States in 1931 amounted to $54,607,646 of which $43,033,389 represents the value of these products imported for consumption, and $11,574,257 the value of exports of domestic fishery products. Compared with the previous year, there is a decrease of 20 per cent in the total trade, 15 per cent in the value of imports, and 33 per cent in the value of exports.

Imports consisted of 276,646,946 pounds of edible products, valued at $28,936,684 and nonedible products, valued at $14,096,705. Fishery exports consisted of 114,334,877 pounds of edible products, valued at $11,380,015 and nonedible products valued at $194,242.

Exports of domestic fishery products, 1931

Item	Quantity	Value
Edible fishery products:		
Fish, fresh, frozen, or packed in ice—		
Salmon ... pounds	3, 989, 224	$533, 696
Other fresh fish ... do	5, 074, 591	421, 370
Total ... do	9, 063, 815	955, 066
Fish, salted or dry cured—		
Cod ... do	1, 021, 290	109, 491
Haddock, hake, and pollock ... do	1, 045, 890	62, 274
Herring ... do	1, 251, 926	70, 943
Salmon ... do	3, 636, 426	375, 129
Other ... do	788, 195	73, 193
Total ... do	7, 743, 727	691, 030
Fish, pickled—		
Salmon ... do	943, 600	197, 866
Other ... do	2, 747, 600	84, 593
Total ... do	3, 691, 200	282, 459
Fish, canned—		
Salmon ... do	24, 221, 633	4, 039, 993
Sardines ... do	53, 246, 898	3, 445, 770
Mackerel ... do	1, 550, 161	111, 218
Other ... do	782, 628	118, 673
Total ... do	79, 801, 320	7, 715, 654
Shellfish—		
Canned ... do	3, 126, 378	565, 340
Not canned ... do	9, 035, 467	1, 033, 689
Total ... do	12, 161, 845	1, 599, 029
Other fish products ... do	1, 872, 970	136, 777
Total edible products ... do	114, 334, 877	11, 380, 015
Nonedible fishery products:		
Marine-animal oils ... do	1, 597, 895	81, 547
Buttons, pearl or shell ... gross	95, 683	27, 306
Sponges ... pounds	68, 036	85, 389
Total		112, 695
Total nonedible products		194, 242
Grand total		11, 574, 257

Imports of fishery products entered for consumption, 1931

Item	Pounds	Value
EDIBLE FISHERY PRODUCTS		
Fish, fresh or frozen:		
Whole, beheaded, or eviscerated or both—		
Salmon	5, 601, 687	$587, 420
Fresh-water fish, not elsewhere specified:		
Yellow pike	7, 462, 927	746, 590
Whitefish	8, 176, 536	823, 854
Tullibees	2, 396, 508	147, 321
Jacks or grass pike	2, 408, 473	104, 896
Lake trout	2, 310, 192	236, 239
Yellow perch	726, 684	44, 861
Lake herring, ciscoes and chubs	2, 319, 104	265, 972
Fresh-water fish, not specially provided for	17, 514, 434	1, 173, 542
Eels	356, 693	26, 746
Cod, haddock, hake, pollock, and cusk	1, 236, 518	63, 373
Halibut:		
Fresh	3, 844, 247	404, 816
Frozen	254, 011	35, 564
Mackerel	1, 825, 846	90, 421
Swordfish	2, 127, 889	207, 417
Sturgeon	3, 434, 942	740, 540
Fish, not specially provided for	2, 561, 405	205, 819
Whether or not whole—		
Smelts	6, 640, 047	840, 349
Tuna fish	7, 857, 846	578, 615
Sea herring—		
Fresh	13, 238, 367	52, 518
Frozen	2, 918, 543	91, 451
Fillets, skinned, boned, sliced, or divided, not specially provided for	3, 008, 143	326, 578
Total	98, 221, 042	7, 794, 902
Fish, salted, dried, smoked, pickled or preserved:		
Dried and unsalted—		
Cod, haddock, hake, pollock, and cusk	2, 400, 218	229, 711
Other	1, 800, 895	286, 932
In oil or in oil and other substances—		
Sardines	29, 417, 669	3, 931, 024
Anchovies	1, 888, 220	560, 410
Antipasto	365, 185	107, 381
Other	1, 648, 765	293, 751
Not in oil or in oil and other substances—		
In air-tight containers weighing with contents, not over 15 pounds each—		
Anchovies	2, 929, 333	269, 134
Salmon	137, 350	12, 653
Herring and sardines	4, 902, 191	426, 971
Fish cakes, balls, and pudding	911, 219	70, 715
Other	1, 467, 195	187, 140
Pickled or salted—		
Not in oil, etc., and not in air-tight containers weighing, with contents, 15 pounds or less each:		
Salmon	640, 593	66, 356
Cod, haddock, hake, pollock, and cusk, neither skinned nor boned (except that vertibral column may be removed)—		
Containing not more than 43 per cent moisture by weight	23, 350, 117	1, 367, 042
Containing more than 43 per cent moisture by weight	13, 467, 714	600, 450
Cod, haddock, hake, pollock, and cusk, skinned or boned	2, 128, 359	197, 579
Herring—		
In bulk or in containers weighing, with contents, more than 15 pounds each (net weight)	41, 562, 791	2, 573, 487
In containers (not air-tight), weighing, with contents, not more than 15 pounds each	32, 552	2, 252
Mackerel—		
In bulk or in containers weighing, with contents, more than 15 pounds each (net weight)	6, 726, 970	312, 742
In containers (not air-tight) weighing, with contents, not more than 15 pounds each	245	88
Pickled or salted, not specially provided for—		
In bulk or in containers weighing, with contents, more than 15 pounds each (net weight)	1, 909, 065	158, 463
In containers (not air-tight) weighing, with contents, not more than 15 pounds each	42, 259	4, 976
Smoked or kippered—		
Not in oil, etc., and not in air-tight containers weighing, with contents, 15 pounds or less each—		
Salmon	4, 278	1, 622
Herring—		
Whole or beheaded	1, 189, 092	59, 350
Eviscerated, split, skinned, boned, or divided	865, 919	81, 483
Cod, haddock, hake, pollock, and cusk—		
Whole, or beheaded, or eviscerated or both	850, 506	78, 208
Filleted, skinned, boned, sliced, or divided	836, 008	96, 140
Smoked or kippered, not specially provided for	143, 814	14, 097

Imports of fishery products entered for consumption, 1931—Continued

Item	Pounds	Value
EDIBLE FISHERY PRODUCTS—continued		
Fish, salted, dried, smoked, pickled or preserved—Continued.		
Fish paste and fish sauce	67, 288	$21, 978
Prepared or preserved, not specially provided for—		
In containers weighing, with contents, not more than 15 pounds each	378, 642	49, 703
In bulk or in containers weighing, with contents, more than 15 pounds each (net weight)	80, 437	9, 538
Total	142, 144, 889	12, 071, 376
Caviar and other fish roe:		
Not boiled, etc.—		
Sturgeon	352, 255	456, 019
Fish roe, not specially provided for	91, 313	18, 124
Boiled, packed in air-tight containers	81, 073	9, 172
Total	524, 641	483, 315
Shellfish:		
Crab meat, crab sauce, and crab paste	11, 426, 096	4, 430, 721
Clams, clam juice, or either in combination with other substances, in air-tight containers	1, 056, 296	154, 088
Oysters, oyster juice, or either in combination with other substances, in air-tight containers	124, 617	24, 130
Lobsters (including spiny lobsters and crawfish)—		
Not canned	9, 983, 824	2, 171, 337
Canned	1, 702, 721	820, 144
Clams not in air-tight containers	3, 144, 295	64, 699
Shrimp and prawn	1, 077, 704	151, 509
Scallops	153, 427	24, 382
Oysters, not in air-tight containers	2, 269, 509	133, 203
Shellfish, not specially provided for	4, 140, 719	569, 360
Pastes and sauces of shellfish, not specially provided for	126, 226	9, 522
Crabs	35, 906	2, 692
Turtles	515, 034	31, 304
Total	35, 756, 374	8, 587, 091
Total edible fishery products	276, 646, 946	28, 936, 684
NONEDIBLE FISHERY PRODUCTS	*Quantity*	
Marine-animal oils:		
Cod oil gallons	1, 794, 359	610, 126
Cod-liver oil do	1, 737, 207	1, 311, 831
Eulachon oil do	1, 375	688
Herring oil do	4, 243, 420	1, 219, 419
Menhaden and sod oil do	91, 563	23, 888
Seal oil do	79, 870	24, 741
Whale oil—		
Sperm, crude do	327, 115	110, 010
Sperm, refined or otherwise processed do	46, 107	17, 466
Whale oil, not specially provided for do	10, 826, 250	4, 815, 690
Total	19, 147, 266	8, 133, 859
Pearls and imitation pearls:		
Pearls and parts, not strung or set		1, 281, 019
Imitation pearls—		
Half pearls and hollow or filled		17, 114
Solid pearls, not elsewhere specified:		
Valued at not more than one-fourth cent an inch inches	1, 661, 234	1, 891
Valued at more than one-fourth cent and not more than 1 cent an inch inches	246, 470	1, 534
Iridescent solid pearls:		
Valued at not more than 10 cents per inch do	41, 102	226
Valued at more than 10 cents per inch do	90	12
Total		1, 301, 796
Shells and buttons of pearl or shell:		
Shells, unmanufactured—		
Green snail shell pounds	114, 521	13, 620
Mother-of-pearl do	4, 438, 168	1, 298, 615
Shells, not specially provided for do	2, 719, 310	71, 234
Shells and mother-of-pearl, engraved, cut, ornamented, or manufactured		22, 205
Shell pearl buttons—		
Ocean or trochus gross	131, 543	56, 105
Buttons (from Philippine Islands) do	849, 009	384, 743
Total		1, 846, 522

Imports of fishery products entered for consumption, 1931—Continued

Item	Quantity	Value
NONEDIBLE FISHERY PRODUCTS—continued		
Sponges:		
Sheepswool ... pounds	208, 539	$425, 384
Yellow, grass, or velvet ... do	324, 728	154, 875
Other ... do	38, 904	83, 263
Manufactures of ... do	2, 557	1, 071
Total	574, 728	664, 593
Agar-agar ... pounds	469, 335	304, 466
Ambergris ... do	7	1, 940
Cod-liver oil cake and cod-liver oil cake meal ... do	944, 856	30, 195
Cuttlefish bone ... do	432, 970	57, 361
Goldfish, live ... number	1, 518, 641	20, 306
Fish for other than human consumption		56, 698
Fish sounds ... pounds	97, 766	17, 509
Fish scrap and fish meal ... tons	38, 447	1, 351, 842
Skins, fish, raw or salted ... pounds	131, 904	13, 453
Skins, seal, raw (not fur skins) ... do	2, 208, 166	292, 813
Spermaceti wax ... do	24, 261	2, 767
Whalebone, unmanufactured ... do	14	31
Whalebone, manufactures of		554
Total		2, 149, 935
Total nonedible fishery products		14, 096, 705
Grand total		43, 033, 389

FISHERIES OF THE NEW ENGLAND STATES [4]

The yield of fishery products in the New England States during 1930 amounted to 701,350,979 pounds, valued at $27,493,479. This is an increase of 1 per cent in the volume of the catch, but a decrease of 5 per cent in its value as compared with the catch in the previous year. Of the total catch in 1930, 645,574,206 pounds, valued at $19,232,205 were fish, and 55,776,773 pounds, valued at $8,261,274 were shellfish and miscellaneous products. These fisheries gave employment to 17,077 fishermen which is a decrease of less than one-half of 1 per cent as compared with the number of fishermen in 1929. Of the total number of fishermen employed during 1930, 6,192 regular fishermen were engaged on vessels and 7,961 regular and 2,924 casual fishermen were employed in the boat and shore fisheries.

Fisheries of the New England States, 1930

SUMMARY OF CATCH

Product	Maine		New Hampshire		Massachusetts	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	124, 465, 169	$1, 828, 711	888, 490	$28, 781	427, 521, 214	$14, 030, 256
Shellfish, etc	19, 358, 465	2, 500, 695	180, 587	40, 363	14, 952, 751	2, 258, 822
Total	143, 823, 634	4, 329, 406	1, 069, 077	69, 144	442, 473, 965	16, 289, 078

Product	Rhode Island		Connecticut		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	16, 935, 860	$699, 748	75, 763, 473	$2, 644, 709	645, 574, 206	$19, 232, 205
Shellfish, etc	9, 036, 033	1, 587, 522	12, 248, 937	1, 873, 872	55, 776, 773	8, 261, 274
Total	25, 971, 893	2, 287, 270	88, 012, 410	4, 518, 581	701, 350, 979	27, 493, 479

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[4] With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

Fisheries of the New England States, 1930—Continued

OPERATING UNITS: BY STATES

Item	Maine	New Hampshire	Massachusetts	Rhode Island	Connecticut	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	439	----------	4, 445	356	952	6, 192
On boats and shore—						
Regular	3, 760	46	2, 859	870	426	7, 961
Casual	952	40	1, 377	403	152	2, 924
Total	5, 151	86	8, 681	1, 629	1, 530	17, 077
Vessels:						
Steam	----------	----------	22	9	33	64
Net tonnage	----------	----------	3, 291	265	5, 477	9, 033
Motor	78	----------	395	74	102	649
Net tonnage	962	----------	15, 384	747	1, 490	18, 583
Sail	1	----------	1	----------	3	5
Net tonnage	19	----------	6	----------	25	50
Total vessels	79	----------	418	83	138	718
Total net tonnage	981	----------	18, 681	1, 012	6, 992	27, 666
Boats:						
Motor	2, 166	38	1, 669	578	237	4, 688
Other	1, 726	5	1, 477	673	218	4, 099
Accessory boats	189	----------	979	160	62	1, 373
Apparatus:						
Purse seines—						
Mackerel	31	2	105	4	9	151
Length, yards	7, 994	500	50, 098	560	1, 620	60, 772
Menhaden	----------	----------	----------	----------	2	2
Length, yards	----------	----------	----------	----------	720	720
Other	28	----------	3	1	----------	32
Length, yards	6, 724	----------	410	320	----------	7, 454
Haul seines	78	1	13	27	28	147
Length, yards	10, 026	100	2, 225	3, 100	2, 710	18, 161
Gill nets—						
Anchor	1, 415	----------	2, 034	----------	32	3, 481
Square yards	209, 750	----------	653, 340	----------	5, 370	868, 460
Drift	74	----------	9, 461	161	230	9, 926
Square yards	11, 681	----------	3, 286, 236	59, 640	22, 770	3, 380, 327
Runaround	----------	----------	----------	12	----------	12
Square yards	----------	----------	----------	24, 100	----------	24, 100
Stake	105	----------	----------	----------	----------	105
Square yards	4, 725	----------	----------	----------	----------	4, 725
Lines—						
Hand	4, 375	160	583	432	288	5, 838
Hooks	4, 403	160	849	587	297	6, 296
Trawl	33, 050	3, 600	54, 956	1, 193	1, 726	94, 525
Hooks	1, 629, 100	180, 000	2, 730, 464	56, 550	84, 380	4, 680, 494
Pound nets	----------	----------	136	62	11	209
Floating traps	25	----------	19	62	8	114
Weirs	213	----------	6	----------	----------	219
Fyke nets	59	----------	52	40	107	258
Dip nets	104	----------	61	17	----------	182
Bag nets	165	----------	----------	----------	----------	165
Push nets	----------	----------	53	----------	----------	53
Pocket nets	17	----------	----------	----------	----------	17
Otter trawls	36	----------	331	66	132	565
Yards at mouth	1, 117	----------	9, 750	1, 824	3, 274	15, 965
Box traps	10	----------	1	4	----------	15
Pots—						
Crab	1, 635	----------	1, 735	----------	160	3, 530
Eel	440	----------	1, 782	2, 015	808	5, 045
Lobster	205, 302	2, 570	69, 249	39, 165	16, 505	332, 791
Periwinkle and cockle	----------	----------	1, 012	875	----------	1, 887
Harpoons, swordfish	44	2	107	49	19	221
Spears	41	----------	201	37	40	319
Dredges—						
Oyster	----------	----------	26	32	242	300
Yards at mouth	----------	----------	27	49	241	317
Scallop	113	----------	2, 877	532	----------	3, 522
Yards at mouth	157	----------	2, 337	414	----------	2, 908
Clam	----------	----------	78	6	----------	84
Yards at mouth	----------	----------	40	4	----------	44
Tongs	----------	----------	183	523	144	850
Rakes	----------	----------	552	156	30	738
Forks	1, 598	----------	538	13	64	2, 213
Hoes	16	----------	610	10	6	642

Fisheries of the New England States, 1930—Continued

CATCH: BY STATES

Species	Maine		New Hampshire		Massachusetts		Rhode Island		Connecticut		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH												
Albacore							34, 759	$703			34, 759	$703
Alewives	2, 129, 495	$17, 369			1, 789, 846	$17, 630	186, 050	1, 693	1, 000	$30	4, 106, 391	36, 722
Bluefish	200	19			210, 307	20, 752	243, 295	29, 516	251, 651	32, 670	705, 453	82, 957
Bonito					82, 417	6, 519	57, 439	4, 221	116	13	139, 972	10, 753
Butterfish	112, 140	14, 891			855, 113	72, 167	901, 120	48, 717	36, 179	3, 773	1, 904, 552	139, 548
Carp					2, 976	59			17, 995	1, 946	20, 971	2, 005
Catfish and bullheads	15, 425	158			102, 125	2, 382					117, 550	2, 540
Cod	13, 483, 964	356, 731	157, 800	$3, 945	77, 522, 224	2, 358, 348	1, 552, 952	64, 819	8, 915, 229	259, 169	101, 632, 169	3, 043, 012
Croaker					140, 005	5, 600			10, 780	434	150, 785	6, 034
Cunners					18, 735	574	87, 600	2, 496			106, 335	3, 070
Cusk	1, 353, 983	28, 555	7, 890	117	4, 713, 076	103, 549			65, 241	960	6, 140, 190	133, 181
Dolphin									138	8	138	8
Eels	241, 975	22, 213			479, 065	44, 466	495, 152	47, 234	138, 729	18, 007	1, 354, 921	131, 920
Flounders	1, 949, 966	88, 889	15, 780	473	31, 334, 909	1, 262, 638	4, 700, 571	146, 972	11, 164, 206	364, 478	49, 165, 432	1, 863, 450
Frigate mackerel					384, 661	17, 921					384, 661	17, 921
Goosefish					200	3					200	3
Grayfish					84, 296	2, 882	8, 900	167			93, 196	3, 049
Haddock	12, 508, 138	371, 773	394, 000	15, 780	202, 687, 789	6, 441, 249	886, 328	30, 121	48, 072, 674	1, 672, 619	264, 548, 929	8, 531, 542
Hake	11, 685, 397	116, 335	78, 900	1, 174	19, 240, 569	412, 058	62, 860	1, 724	1, 137, 702	25, 212	32, 205, 428	556, 503
Halibut	103, 344	17, 708	300	45	2, 880, 444	445, 638			182, 910	33, 472	3, 166, 998	496, 863
Herring, sea	73, 938, 780	385, 712	60, 000	450	8, 687, 049	113, 467	214, 711	3, 067			82, 900, 540	502, 696
Hickory shad							4, 019	85			4, 049	85
King whiting or "kingfish"					200	21					200	21
Launce					182, 926	4, 384					182, 926	4, 384
Mackerel	3. 042, 157	118, 038	100, 000	4, 000	45, 531, 276	1, 569, 658	1, 411, 571	51, 656	615, 626	24, 366	50, 700, 630	1, 767, 718
Menhaden							132, 160	1, 039	1, 575, 660	15, 862	1, 707, 820	16, 901
Minnows					6, 000	1, 200			30, 035	2, 722	36, 035	3, 922
Mullet							8, 392	298			8, 392	298
Mummichog									7, 134	713	7, 134	713
Pike or pickerel									275	41	275	41
Pollock	2, 045, 142	28, 616	39, 450	562	15, 014, 676	261, 472	174, 926	2, 495	545, 366	12, 519	17, 819, 560	305, 664
Rosefish	3, 845	34			109, 857	2, 189			3, 528	25	117, 230	2, 248
Salmon	88, 295	27, 265			55	10					88, 350	27, 275
Scup or porgy					792, 008	35, 798	1, 645, 590	76, 273	285, 452	5, 697	2, 723, 050	117, 768
Sea bass					141, 587	9, 377	35, 734	2, 161	14, 253	2, 103	191, 574	13, 641
Sea robin					100	1	193, 928	2, 360	41, 056	207	235, 084	2, 568
Shad	88, 635	1, 801			54, 149	2, 941	4, 303	701	53, 942	10, 095	201, 029	15, 538

Sharks	41,010	1,039			49,069	976	12,980	216			103,059	2,231
Skates					51,803	816	680,350	6,517	283,833	2,352	1,015,986	9,685
Skipper or "billfish"							6,068	1,248			6,068	1,248
Smelt	720,708	126,399	8,000	1,600	6,250	2,719	50,975	7,680	9,900	2,123	795,833	140,521
Spearfish	94	11									94	11
Squeteagues or "sea trout":												
Gray					1,238	149	141,145	15,416	43,252	3,822	185,635	19,387
Spotted					1,246	221					1,246	221
Striped bass					27,385	6,099	59,817	10,870	1,638	185	88,840	17,154
Sturgeon	440	66			7,745	1,015	1,234	197			9,419	1,278
Suckers	36,859	2,949					7,600	152	69,020	5,263	113,479	8,364
Swordfish	572,519	93,214			3,728,333	657,593	609,899	90,109	224,296	35,668	5,135,047	876,584
Tautog					109,710	6,758	309,635	15,142	135,545	10,087	554,890	31,987
Tilefish									1,783,456	97,068	1,783,456	97,068
Tomcod	51,252	897					22,600	302	200	60	74,052	1,259
Tuna or "horse-mackerel"	140,918	6,873	2,700	162	66,066	5,223	24,180	1,901	5,400	324	239,264	14,483
White perch					450	45	49,700	5,038			50,150	5,083
Whiting	40,630	228			7,902,288	81,719	1,917,287	26,442	2,500	10	9,862,705	108,399
Wolffish	69,470	883	23,670	473	2,520,991	51,970			36,856	501	2,650,987	53,827
Yellow perch	388	45							700	105	1,088	150
Total	124,465,169	1,828,711	888,490	28,781	427,521,214	14,030,256	16,935,860	699,748	75,763,473	2,644,709	645,574,206	19,232,205
SHELLFISH, ETC.												
Crabs, hard	1,123,353	33,780			458,298	86,280	166,562	5,256	203,528	4,056	1,951,741	129,372
Lobsters	7,750,682	2,007,343	180,587	40,363	2,338,234	625,946	1,353,107	313,550	734,712	230,266	12,357,322	3,217,468
Shrimp					4,800	3,600					4,800	3,600
Squid	119,140	1,185			3,830,006	68,922	1,545,902	41,876	10,700	225	5,505,748	112,208
Clams:												
Cockle	4,206	210			24,570	4,715					28,776	4,925
Hard, public [1]					1,889,704	477,010	1,626,427	317,874	17,428	8,584	3,533,559	803,468
Hard, private [1]					66,000	7,149	222,448	47,505			288,448	54,654
Razor					380,266	20,476					380,266	20,476
Soft, public [2]	9,648,588	341,612			3,273,652	275,934	28,440	6,442	71,730	12,989	13,022,410	636,977
Soft, private [2]	276,080	7,364									276,080	7,364
Surf or skimmer					38,275	3,750					38,275	3,750
Mussels, sea					10,800	2,100					10,800	2,100
Oysters:												
Market, public, spring [3]					770	200	8,944	2,650	5,135	1,745	14,849	4,595
Market, public, fall [3]							9,079	2,670	21,741	3,825	30,820	6,495
Market, private, spring [3]					222,175	100,411	1,531,592	339,887	3,032,230	423,439	4,785,997	863,737
Market, private, fall [3]					211,569	90,039	1,832,128	392,709	2,556,605	389,525	4,600,302	872,273

[1] Statistics on hard clams used in this table are based on yields of 11 pounds of meats per bushel in Massachusetts and Rhode Island, and 8 pounds in Connecticut. In reports for previous years all hard clams in these States have been computed on the basis of a uniform yield of 8 pounds of meats to the bushel.

[2] Statistics on soft clams used in this table are based on yields of 17 pounds of meats per bushel in Maine, Massachusetts, and Rhode Island; and 15 pounds in Connecticut. In reports for previous years, all soft clams in these States have been computed on the basis of a uniform yield of 10 pounds of meats to the bushel.

[3] Statistics on market oysters used in this table are based on yields of 8.8 pounds of meats per bushel in Massachusetts, 8 pounds in Rhode Island, and 7.5 pounds in Connecticut. In reports for previous years, all market oysters have been computed on the basis of a uniform yield of 7 pounds of meats to the bushel.

Fisheries of the New England States, 1930—Continued

CATCH: BY STATES—Continued

Species	Maine		New Hampshire		Massachusetts		Rhode Island		Connecticut		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC.—continued												
Oysters—Continued.												
Seed, public, spring [4]							6, 023	$1, 002	518, 805	$72, 405	524, 828	$73, 407
Seed, public, fall [4]					31, 500	$2, 250	361	47	805, 406	92, 308	837, 267	94, 605
Seed, private, spring [4]					115, 808	6, 886	298, 500	40, 750	3, 709, 741	556, 963	4, 124, 049	604, 599
Seed, private, fall [4]									561, 176	77, 542	561, 176	77, 542
Periwinkles					17, 442	3, 887	312, 210	34, 680			329, 652	38, 567
Scallops:												
Bay					1, 435, 144	396, 565	94, 310	40, 624			1, 529, 454	437, 189
Sea	436, 416	$109, 201			510, 738	77, 122					947, 154	186, 323
Irish moss					93, 000	5, 580					93, 000	5, 580
Total	19, 358, 465	2, 500, 695	180, 587	$40, 363	14, 952, 751	2, 258, 822	9, 036, 033	1, 587, 522	12, 248, 937	1, 873, 872	55, 776, 773	8, 261, 274
Grand total	143, 823, 634	4, 329, 406	1, 069, 077	69, 144	442, 473, 965	16, 289, 078	25, 971, 893	2, 287, 270	88, 012, 410	4, 518, 581	701, 350, 979	27, 493, 479

[4] Statistics on seed oysters, public and private, used in this table are based on yields of 7 pounds of meats to the bushel, the same as in previous reports.

Fisheries of the New England States, 1930—Continued

PRODUCTION OF CERTAIN SHELLFISH IN NUMBERS AND BUSHELS

Product	Maine		Massachusetts		Rhode Island		Connecticut		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Crabs, hard..number..	3, 370, 058	$33, 780	1, 374, 894	$86, 280	499, 686	$5, 256	610, 584	$4, 056	5, 855, 223	$129, 372
Clams:										
Cockle.....bushels..	421	210	1, 365	4, 715					1, 786	4, 925
Hard, public..do....			17, 791	477, 010	147, 857	317, 874	2, 179	8, 584	321, 827	803, 468
Hard, private ....do....			6, 000	7, 149	20, 223	47, 505			26, 223	54, 654
Razor........do....			7, 042	20, 476					7, 042	20, 476
Soft, public..do....	567, 564	341, 612	192, 568	275, 934	1, 673	6, 442	4, 782	12, 989	766, 587	636, 977
Soft, private..do....	16, 240	7, 364							16, 240	7, 364
Surf or skimmer ....bushels..			3, 190	3, 750					3, 190	3, 750
Mussels...........do....			1, 080	2, 100					1, 080	2, 100
Oysters:										
Market, public, spring..bushels..			88	200	1, 118	2, 650	685	1, 745	1, 891	4, 595
Market, public, fall ....bushels..					1, 135	2, 670	2, 900	3, 825	4, 035	6, 495
Market, private, spring..bushels..			25, 247	100, 411	191, 449	339, 887	404, 459	423, 439	621, 155	863, 737
Market, private, fall......bushels..			24, 042	90, 039	229, 016	392, 709	341, 017	389, 525	594, 075	872, 273
Seed, public, spring ....bushels..					860	1, 002	74, 115	72, 405	74, 975	73, 407
Seed, public, fall ....bushels..			4, 500	2, 250	52	47	115, 058	92, 308	119, 610	94, 605
Seed, private, spring..bushels..			16, 544	6, 886	42, 643	40, 750	529, 963	556, 963	589, 150	604, 599
Seed, private, fall ....bushels..							80, 168	77, 542	80, 168	77, 542
Periwinkles......do....			969	3, 887	17, 345	34, 680			18, 314	38, 567
Scallops:										
Bay...........do....			239, 191	396, 565	15, 718	40, 624			254, 909	437, 189
Sea...........do....	72, 736	109, 201	85, 123	77, 122					157, 859	186, 323

Industries related to the fisheries of the New England States, 1930

Item	Maine	New Hampshire	Massachusetts	Rhode Island	Connecticut	Total
Transporting:						
Persons engaged—	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels..................	239	3	30	19	72	363
On boats..................	1					1
Total..................	240	3	30	19	72	364
Vessels—						
Steam..................					3	3
Net tonnage..........					150	150
Motor..................	115	1	12	6	13	147
Net tonnage..........	1, 260	16	199	55	305	1, 835
Total vessels........	115	1	12	6	16	150
Total net tonnage..	1, 260	16	199	55	455	1, 985
Boats..................	1					1
Wholesale and manufacturing—						
Establishments..............	187	3	193	34	33	450
Persons engaged—						
Proprietors..............	214	5	77	28	40	364
Salaried employees........	155		762	58	53	1, 028
Wage earners—						
Average for season....	5, 888	9	2, 734	328	903	9, 862
Average for year....	1, 814	8	2, 429	218	694	5, 163
Salaries and wages paid......	$1, 822, 209	$17, 780	$5, 192, 823	$372, 328	$1, 050, 320	$8, 455, 460
Manufactured products[1].....	$6, 877, 816	(²)	$15, 869, 420	$1, 291, 225	$2, 716, 889	$26, 755, 350
Fishermen's manufactured products:						
Persons engaged..............	355		3, 325	467		4, 147
Products..................	$133, 956		$691, 678	$37, 331		$862, 965

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[1] These production figures are not comparable with those shown in previous bulletins since packaged fresh and frozen fishery products are now included.

[2] Included with Maine.

NOTE.—Of the total number of persons employed on transporting craft, 8 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 2,950 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

MAINE

Fisheries of Maine, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines	Gill nets			Lines		Floating traps
	Mackerel	Other		Anchor	Drift	Stake	Hand	Trawl	
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:									
On vessels	97	95	2	37	6		12	190	
On boats and shore—									
Regular	38	19	164	136	8		532	839	32
Casual			3	59	7	5	686		3
Total	135	114	169	232	21	5	1,230	1,029	35
Vessels:									
Motor—									
5 to 10 tons	9	16	1	5			5	8	
11 to 20 tons	5	5		2				7	
21 to 30 tons		1						2	
31 to 40 tons	1							2	
41 to 50 tons		1							
51 to 60 tons								2	
Total	15	23	1	7			5	21	
Net tonnage	174	242	9	67			32	410	
Sail—									
10 to 20 tons	1				1			1	
Net tonnage	19				19			19	
Total vessels	16	23	1	7	1		5	22	
Total net tonnage	193	242	9	67	19		32	429	
Boats:									
Motor	14	5	77	71	4	1	303	581	17
Other	14	6	79	59	4	5	157	162	3
Accessory boats	22	29	1				1	138	
Apparatus:									
Number	31	28	78	1,415	74	105	4,375	33,050	25
Length, yards	7,994	6,724	10,026						
Square yards				209,750	11,681	4,725			
Hooks, baits, or snoods							4,403	1,629,100	

Item	Weirs	Fyke nets	Dip nets	Bag nets	Pocket nets	Otter trawls	Box traps	Pots		
								Crab	Eel	Lobster
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:										
On vessels						39				10
On boats or shore—										
Regular	246		6	33		61		37	13	2,138
Casual	83	13	98	60	6		10		11	2
Total	329	13	104	93	6	100	10	37	24	2,150
Vessels:										
Motor—										
5 to 10 tons						7				5
11 to 20 tons						3				
Total						10				5
Net tonnage						92				27
Boats:										
Motor	136	1		15	2	30		28	2	1,804
Other	182	12		58	4	4	2	10	22	849
Apparatus:										
Number	213	59	104	165	17	36	10	1,635	440	205,302
Yards at mouth						1,117				

Fisheries of Maine, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Harpoons, swordfish	Spears	Dredges, scallop	Forks	Hoes	By hand	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	179		21				439
On boats and shore—							
Regular	54	4	109	1,605	16		3,760
Casual		37		28		1	952
Total	233	41	130	1,633	16	1	5,151
Vessels:							
Motor—							
5 to 10 tons	3		5				49
11 to 20 tons	7		2				21
21 to 30 tons	2						3
31 to 40 tons	2						2
41 to 50 tons							1
51 to 60 tons	2						2
Total	16		7				78
Net tonnage	374		65				962
Sail—							
10 to 20 tons	1						1
Net tonnage	19						19
Total vessels	17		7				79
Total net tonnage	393		65				981
Boats:							
Motor	27	1	94	224			2,166
Other		40	7	581	3		1,726
Accessory boats	14						189
Apparatus:							
Number	44	41	113	1,598	16		248,974
Yards at mouth			157				

CATCH: BY GEAR

Species	Purse seines				Haul seines		Gill nets			
	Mackerel		Other				Anchor		Drift	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	135,000	$4,000					47,516	$660		
Butterfish	1,300	39								
Cod							2,996,823	93,208		
Cusk							17,890	354		
Flounders							4,992	97		
Haddock							910,435	23,931		
Hake							334,677	6,054		
Halibut							238	29		
Herring, sea	6,381,032	62,546	32,602,280	$169,471	2,561,391	$13,873	3,065	61	25,000	$214
Mackerel	1,900,205	74,198	150,000	7,200			349,900	14,140	89,462	3,282
Pollock	143	3	65,810	658			986,627	14,387		
Salmon	43	7					15,152	4,826	600	180
Shad	54,026	816	1,500	30			1,720	121	29,800	808
Sharks							34,189	871		
Smelts	2,500	375			268,770	44,343	82,797	15,851		
Sturgeon							190	16	250	50
Tomcod					11,252	297				
Whiting	12,000	60								
Wolffish							67	1		
Lobsters							36	15		
Total	8,486,249	142,044	32,819,590	177,359	2,841,413	58,513	5,786,314	174,622	145,112	4,534

Fisheries of Maine, 1930—Continued

CATCH: BY GEAR—Continued

Species	Gill nets—Stake		Lines				Floating traps		Weirs	
			Hand		Trawl					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives									630, 833	$5, 650
Bluefish							200	$19		
Butterfish							110, 840	14, 852		
Catfish and bullheads					15, 425	$158				
Cod			1, 796, 906	$41, 085	7, 905, 720	202, 487				
Cusk			16, 975	173	1, 312, 165	27, 957				
Eels					15, 640	1, 564				
Flounders					57, 739	1, 578				
Haddock			1, 250, 936	32, 705	9, 500, 613	294, 998				
Hake			1, 250, 419	12, 061	9, 833, 249	95, 654				
Halibut			15, 647	2, 729	87, 330	14, 929				
Herring, sea							1, 474, 000	9, 766	30, 892, 012	129, 781
Mackerel							546, 590	18, 918	6, 000	300
Pollock			498, 713	6, 513	493, 255	7, 046				
Rosefish					3, 845	34				
Salmon	9, 000	$2, 700					8, 958	2, 381	50, 512	15, 760
Shad							1, 589	26		
Sharks					5, 121	123	1, 500	41		
Smelts	7, 334	1, 100	207, 270	38, 392			150	23	6, 124	1, 144
Whiting							28, 630	168		
Wolffish					67, 447	861				
Squid							119, 140	1, 185		
Total	16, 334	3, 800	5, 036, 866	133, 658	29, 297, 549	647, 389	2, 291, 597	47, 379	31, 585, 481	152, 635

Species	Fyke nets		Dip nets		Bag nets		Pocket nets		Otter trawls	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			1, 316, 146	$7, 059						
Cod									784, 515	$19, 951
Cusk									6, 953	71
Eels	1, 595	$160	8, 640	864					8, 000	240
Flounders									1, 887, 235	87, 214
Haddock									846, 154	20, 139
Hake									267, 052	2, 566
Halibut									129	21
Pollock									594	9
Salmon			4, 030	1, 411						
Sharks									200	4
Smelts			19, 000	2, 900	125, 213	$21, 978	1, 550	$293		
Suckers	36, 859	2, 949								
Tomcod					40, 000	600				
Wolffish									1, 956	21
Yellow perch	388	45								
Total	38, 842	3, 154	1, 347, 816	12, 234	165, 213	22, 578	1, 550	293	3, 802, 788	130, 236

Species	Box traps		Pots						Harpoons, swordfish	
			Crab		Eel		Lobster			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels	31, 875	$4, 232			139, 680	$10, 442				
Spearfish									94	$11
Swordfish									572, 519	93, 214
Tuna or "horse mackerel"									140, 918	6, 873
Crabs, hard			991, 353	$29, 390			132, 000	$4, 390		
Lobsters			14, 771	4, 654			7, 735, 875	2, 002, 674		
Total	31, 875	4, 232	1, 006, 124	34, 044	139, 680	10, 442	7, 867, 875	2, 007, 064	713, 531	100, 098

Species	Spears		Dredges, scallop		Forks		Hoes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels	36, 545	4, 711								
Clams:										
Cockle									4, 206	$210
Soft, public					9, 457, 338	$334, 862	191, 250	$6, 750		
Soft, private					276, 080	7, 364				
Scallops, sea			436, 416	$109, 201						
Total	36, 545	4, 711	436, 416	109, 201	9, 733, 418	342, 226	191, 250	6, 750	4, 206	210

Fisheries of Maine, 1930—Continued

OPERATING UNITS: BY COUNTIES

Item	Cumberland	Hancock	Kennebec	Knox	Lincoln	Penobscot	Sagadahoc	Waldo	Washington	York
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:										
On vessels	256	15	------	89	48	------	------	------	23	8
On boats and shore—										
Regular	603	930	------	606	400	------	145	23	866	187
Casual	------	251	2	133	177	15	208	85	81	------
Total	859	1, 196	2	828	625	15	353	108	970	195
Vessels:										
Motor—										
5 to 10 tons	14	5	------	19	7	------	------	------	3	1
11 to 20 tons	12	------	------	5	2	------	------	------	1	1
21 to 30 tons	2	------	------	------	------	------	------	------	1	------
31 to 40 tons	2	------	------	------	------	------	------	------	------	------
41 to 50 tons	------	------	------	------	------	------	------	------	1	------
51 to 60 tons	2	------	------	------	------	------	------	------	------	------
Total	32	5	------	24	9	------	------	------	6	2
Net tonnage	529	31	------	202	78	------	------	------	102	20
Sail—10 to 20 tons	1	------	------	------	------	------	------	------	------	------
Net tonnage	19	------	------	------	------	------	------	------	------	------
Total vessels	33	5	------	24	9	------	------	------	6	2
Total net tonnage	548	31	------	202	78	------	------	------	102	20
Boats:										
Motor	324	526	1	438	206	1	57	18	500	95
Other	163	551	1	126	119	14	66	42	594	50
Accessory boats	140	1	------	24	12	------	------	------	9	3
Apparatus:										
Purse seines—										
Mackerel	9	------	------	7	14	------	------	------	------	1
Length, yards	2, 215	------	------	2, 400	3, 155	------	------	------	------	224
Other	6	4	------	7	4	------	1	------	6	------
Length, yards	870	922	------	1, 412	970	------	140	------	2, 410	------
Haul seines	36	7	------	16	10	------	6	------	2	1
Length, yards	3, 380	1, 226	------	1, 980	1, 540	------	600	------	1, 200	100
Gill nets—										
Anchor	412	32	------	53	315	91	6	44	281	181
Square yards	67, 220	8, 920	------	14, 190	50, 240	3, [illegible]	1, 080	1, 919	34, 756	27, 910
Drift	45	2	------	------	4	1	2	------	------	20
Square yards	6, 840	640	------	------	461	300	240	------	------	3, 200
Stake	------	4	------	------	------	101	------	------	------	------
Square yards	------	240	------	------	------	4, 485	------	------	------	------
Lines—										
Hand	78	1, 933	------	560	732	------	825	80	167	------
Hooks	88	1, 951	------	560	732	------	825	80	167	------
Trawl	10, 210	8, 250	------	6, 860	1, 910	------	1, 350	40	3, 010	1, 420
Hooks	510, 500	412, 500	------	339, 400	95, 500	------	67, 500	2, 000	129, 700	72, 000
Floating traps	11	------	------	------	2	------	9	3	------	------
Weirs	------	74	------	17	4	4	3	18	93	------
Fyke nets	------	------	18	------	21	------	20	------	------	------
Dip nets	------	9	------	7	15	------	2	30	41	------
Bag nets	------	29	------	------	------	6	5	44	81	------
Pocket nets	------	------	------	------	------	------	7	------	10	------
Otter trawls	14	15	------	6	1	------	------	------	------	------
Yards at mouth	363	571	------	150	33	------	------	------	------	------
Box traps	------	3	------	3	1	------	------	------	3	------
Pots—										
Crab	865	------	------	60	210	------	------	------	500	------
Eel	75	60	------	20	------	10	75	55	------	145
Lobster	23, 104	51, 774	------	49, 556	22, 616	------	3, 213	440	47, 644	6, 955
Harpoons, swordfish	28	------	------	1	4	------	8	------	------	3
Spears	------	2	------	15	5	------	12	------	3	4
Dredges, scallop	10	64	------	23	------	------	------	------	16	------
Yards at mouth	13	84	------	43	------	------	------	------	17	------
Forks	271	451	------	149	191	------	79	12	355	90
Hoes	------	------	------	------	------	------	------	------	16	------

Fisheries of Maine, 1930—Continued

CATCH: BY COUNTIES

Species	Cumberland		Hancock		Kennebec	
	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	-----	-----	501, 016	$3, 878	-----	-----
Bluefish	200	$19	-----	-----	-----	-----
Butterfish	26, 540	2, 606	-----	-----	-----	-----
Catfish and bullheads	15, 425	158	-----	-----	-----	-----
Cod	4, 316, 774	142, 726	3, 302, 790	69, 408	-----	-----
Cusk	860, 739	19. 947	140, 517	1, 700	-----	-----
Eels	23, 000	1, 740	30, 075	2, 208	1, 520	$152
Flounders	442, 043	11, 048	872, 249	58, 577	-----	-----
Haddock	4, 911, 785	171, 963	2, 337, 586	50, 559	-----	-----
Hake	2, 741. 367	44, 739	5, 543, 920	38, 791	-----	-----
Halibut	19, 203	3, 263	29, 308	4, 865	-----	-----
Herring, sea	12, 795, 175	80, 107	10, 440, 248	44, 666	-----	-----
Mackerel	1, 120, 486	36, 706	-----	-----	-----	-----
Pollock	1, 223, 166	17, 548	342, 832	3, 980	-----	-----
Rosefish	3, 845	34	-----	-----	-----	-----
Salmon	1, 971	418	35, 092	11, 128	-----	-----
Shad	60, 604	978	-----	-----	-----	-----
Sharks	41, 010	1, 039	-----	-----	-----	-----
Smelts	92, 467	14, 321	170, 443	34, 374	-----	-----
Spearfish	94	11	-----	-----	-----	-----
Sturgeon	190	16	-----	-----	-----	-----
Suckers	-----	-----	-----	-----	21, 314	1, 705
Swordfish	571, 853	93, 134	-----	-----	-----	-----
Tomcod	11, 252	297	-----	-----	-----	-----
Tuna or "horse mackerel"	59, 511	2, 656	-----	-----	-----	-----
Whiting	28, 630	168	-----	-----	-----	-----
Wolffish	51, 710	686	-----	-----	-----	-----
Crabs, hard	766, 852	22, 961	1, 000	10	-----	-----
Lobsters	1, 051, 067	298, 211	1, 915, 824	474, 327	-----	-----
Squid	34, 040	340	-----	-----	-----	-----
Clams:						
Soft, public	1, 741, 208	96. 683	2, 425, 084	59, 865	-----	-----
Soft, private	-----	-----	19, 040	560	-----	-----
Scallops, sea	4, 800	1, 800	135, 798	52, 292	-----	-----
Total	33, 017, 008	1, 066, 323	28, 242, 822	911, 188	22, 834	1, 857

Species	Knox		Lincoln		Penobscot	
	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	577, 716	$3, 091	750, 500	$7, 978	-----	-----
Butterfish	-----	-----	10, 600	1, 060	-----	-----
Cod	2, 267, 003	51, 340	1, 171, 903	27, 975	-----	-----
Cusk	130, 165	2, 804	111, 851	2, 197	-----	-----
Eels	24, 700	3, 445	3, 400	336	200	$17
Flounders	596, 315	17, 458	37, 018	1, 736	-----	-----
Haddock	2, 734, 758	79, 924	684, 145	17, 602	-----	-----
Hake	1, 712, 896	15, 932	864, 102	8, 661	-----	-----
Halibut	14, 839	2, 533	6, 663	1, 251	-----	-----
Herring, sea	9, 069, 902	49, 136	7, 315, 260	65, 159	-----	-----
Mackerel	168, 643	8, 781	1, 116, 428	49, 533	-----	-----
Pollock	175, 945	2, 542	91, 170	1, 360	-----	-----
Salmon	-----	-----	1, 250	333	17, 952	5, 088
Shad	19, 400	291	7, 900	459	-----	-----
Smelts	140, 537	21, 304	48, 533	7, 790	29, 099	4, 365
Suckers	-----	-----	5, 045	404	-----	-----
Swordfish	666	80	-----	-----	-----	-----
Tuna or "horse mackerel"	-----	-----	19, 680	1, 181	-----	-----
Whiting	12, 000	60	-----	-----	-----	-----
Wolffish	2, 283	23	550	7	-----	-----
Yellow perch	-----	-----	138	17	-----	-----
Crabs, hard	10, 000	500	323, 000	10, 140	-----	-----
Lobsters	1, 998, 295	532, 974	917, 498	235, 964	-----	-----
Squid	-----	-----	22, 100	221	-----	-----
Clams:						
Soft, public	743, 002	26, 077	903, 652	30, 011	-----	-----
Soft, private	-----	-----	257, 040	6, 804	-----	-----
Scallops, sea	270, 702	52, 219	-----	-----	-----	-----
Total	20, 669, 767	870, 514	14, 669, 426	478, 179	47, 251	9, 470

Fisheries of Maine, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Sagadahoc		Waldo		Washington		York	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	82,000	$656	6,665	$200	211,598	$1,566		
Butterfish	75,000	11,225						
Cod	548,080	16,079	51,000	1,230	1,188,792	28,613	637,622	$19,360
Cusk	12,790	255			34,507	345	63,414	1,307
Eels	46,305	2,631	39,900	3,191	24,725	3,677	48,150	4,815
Flounders							2,341	70
Haddock	190,870	5,721	23,665	710	798,912	18,808	826,417	26,486
Hake	117,500	1,175	32,750	655	466,423	3,512	206,439	2,870
Halibut	2,400	360			26,313	4,731	4,618	705
Herring, sea	1,725,000	10,870	136,500	615	32,396,695	134,559	60,000	600
Mackerel	272,400	8,940	6,000	300			358,200	13,778
Pollock	32,400	324			111,406	1,926	68,223	936
Salmon	1,950	488	22,750	7,114	7,330	2,696		
Shad					731	73		
Smelts	68,650	13,258	82,133	12,605	82,181	17,382	6,665	1,000
Sturgeon	250	50						
Suckers	10,500	840						
Tomcod			40,000	600				
Tuna or "horse mackerel"	56,927	2,748					4,800	288
Wolffish							14,927	167
Yellow perch	250	28						
Crabs, hard					22,500	169		
Lobsters	182,422	47,875	8,957	2,801	1,372,652	328,936	303,967	86,255
Squid	63,000	624						
Clams:								
Cockle					4,206	210		
Soft, public	405,960	16,003	35,020	2,840	2,874,462	79,533	520,200	30,600
Scallops, sea					25,116	2,890		
Total	3,894,654	140,150	485,340	32,862	39,648,549	629,626	3,125,983	189,237

Industries related to the fisheries of Maine, 1930

TRANSPORTING

Item	Cumberland County	Hancock County	Knox County	Washington County	Total
	Number	*Number*	*Number*	*Number*	*Number*
Persons engaged:					
On transporting vessels	22	23	18	176	239
On transporting boats				1	1
Total	22	23	18	177	240
Vessels:					
Motor—					
5 to 10 tons	9	7	6	43	65
11 to 20 tons	2	4	3	33	42
21 to 30 tons				6	6
31 to 40 tons				1	1
41 to 50 tons				1	1
Total	11	11	9	84	115
Net tonnage	96	111	79	974	1,260
Boats				1	1

Industries related to the fisheries of Maine, 1930—Continued

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Cumberland County	Hancock County	Knox County	Lincoln County	Penobscot, Sagadahoc, and York Counties	Washington County	Total
Establishments	29	29	33	13	4	79	187
Persons engaged:							
Proprietors	43	32	29	12	5	93	214
Salaried employees	59	9	24	7	1	54	154
Wage earners—							
Average for season	1, 428	614	474	209	21	3, 143	5, 809
Average for year	440	199	170	98	21	886	1, 814
Paid to salaried employees	$153, 317	$31, 126	$74, 971	$8, 877	$7, 800	$128, 032	$404, 123
Paid to wage earners	399, 505	177, 969	145, 919	78, 788	34, 005	581, 900	1, 418, 086
Total salaries and wages	552, 822	209, 095	220, 890	87, 665	41, 805	709, 932	1, 822, 209

PRODUCTS MANUFACTURED [1]

Item	Quantity	Value
Alewives, salted ... pounds	582, 400	$15, 119
Cod:		
Fresh sticks ... do	280, 390	49, 486
Salted ... do	1, 477, 124	85, 504
Fish cakes, canned ... standard cases	9, 051	59, 520
Oil, cod-liver ... gallons	33, 904	21, 662
Cusk:		
Fresh sticks ... pounds	150, 490	25, 732
Salted ... do	85, 269	3, 839
Flounders, fresh fillets ... do	8, 960	1, 402
Haddock:		
Fresh sticks ... do	183, 470	31, 564
Fresh fillets ... do	504, 988	84, 609
Frozen fillets ... do	566, 349	66, 702
Salted ... do	121, 367	6, 253
Finnan haddie ... do	178, 800	25, 370
Smoked fillets ... do	193, 150	38, 530
Hake:		
Fresh sticks ... do	214, 000	35, 092
Fresh fillets ... do	39, 605	4, 437
Salted ... do	3, 195, 722	86, 051
Herring, sea:		
Smoked—		
Bloaters ... do	1, 639, 445	76, 434
Boneless ... do	1, 387, 750	149, 283
Lengthwise ... do	127, 794	12, 780
Medium-scaled ... do	265, 088	26, 263
Miscellaneous ... do	54, 447	8, 209
Canned, "sardines" ... standard cases	1, 399, 212	4, 459, 071
Meal ... tons	2, 126	77, 913
Scrap, dry pomace ... do	3, 736	7, 592
Oil ... gallons	125, 242	32, 346
Scales ... pounds	81, 153	1, 932
Pollock, salted ... do	173, 067	8, 381
Soft clams:		
Canned—		
Whole ... standard cases	95, 203	419, 636
Chowder ... do	56, 926	177, 991
Juice and bouillon ... do	16, 388	54, 782
Unclassified products:		
Fresh and frozen [2] ... pounds	173, 113	22, 953
Salted [3] ... do	290, 391	46, 014
Smoked [4] ... do	75, 397	10, 273
Canned [5] ... standard cases	44, 955	451, 259
Meal, ground fish ... tons	896	45, 082
By-products [6]	(7)	148, 750
Total		6, 877, 816

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[1] Includes a small quantity of fish smoked in Rockingham County, N. H.

[2] Includes fresh cod and cusk fillets; frozen cod, cusk, flounders, hake, and wolffish fillets; and frozen hake sticks.

[3] Includes salt cod bits, boneless cod, cheeks, tongues and sounds, herring, mackerel fillets, and mackerel split; and pickled herring.

[4] Includes smoked cod fillets, cusk fillets, and hake fillets.

[5] Includes canned clam cakes, finnan haddie, fish flakes, haddock fillets and smoked herring.

[6] Includes glue, herring skins, herring dry scrap, clam meal, tanners' oil, and buttons made from imported shells.

[7] Data not available.

Industries related to the fisheries of Maine, 1930—Continued

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 223]

Item		Quantity	Value
Alewives:			
Salted	pounds	322,025	$8,057
Smoked	do	208,063	6,937
Cod, salted	do	10,407	765
Cusk, salted	do	2,308	92
Hake, salted	do	685	27
Herring, sea, salted	do	9,170	447
Mackerel, salted	do	665	13
Pollock, salted	do	2,665	118
Crab meat, packaged (fresh-cooked)	do	15,600	7,800
Scallops, sea, fresh-shucked	gallons	57,476	109,700
Total			133,956

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 174 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

NEW HAMPSHIRE

Fisheries of New Hampshire, 1930 [1]

OPERATING UNITS: BY GEAR

Item	Purse seines, mackerel	Haul seines	Lines		Pots, lobster	Harpoons, swordfish	Total, exclusive of duplication
			Hand	Trawl			
Fishermen:							
On boats and shore—	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Regular	6	3		12	34	4	46
Casual			40				40
Total	6	3	40	12	34	4	86
Boats:							
Motor	2	1		6	32	2	38
Other	2	1			2		5
Apparatus:							
Number	2	1	160	3,600	2,570	2	
Length, yards	500	100					
Hooks			160	180,000			

CATCH: BY GEAR

Species	Purse seines		Haul seines		Lines				Pots, lobster		Harpoons, swordfish	
					Hand		Trawl					
	Lbs.	*Value*	*Lbs.*	*Value*	*Lbs.*	*Value*	*Lbs.*	*Value*	*Lbs.*	*Value*	*Lbs.*	*Value*
Cod							157,800	$3,945				
Cusk							7,890	117				
Flounders							15,780	473				
Haddock							394,000	15,780				
Hake							78,900	1,174				
Halibut							300	45				
Herring, sea			60,000	$450								
Mackerel	100,000	$4,000										
Pollock							39,450	562				
Smelt					8,000	$1,600						
Tuna or "horse mackerel"											2,700	$162
Wolffish							23,670	473				
Lobsters									180,587	$40,363		
Total	100,000	4,000	60,000	450	8,000	1,600	717,790	22,569	180,587	40,363	2,700	162

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[1] The fisheries of New Hampshire are confined to Rockingham County.

Industries related to the fisheries of New Hampshire, 1930

TRANSPORTING

Persons engaged on vessels	3
Vessels:	
Number	1
Net tonnage	16

WHOLESALE AND MANUFACTURING IN ROCKINGHAM COUNTY

Operating Units, Salaries, and Wages

Establishments	3
Persons engaged:	
Proprietors	5
Wage earners[1]	9
Paid to salaried employees and wage earners	$17, 780

NOTE.—A small amount of smoked fish produced in New Hampshire has been included with Maine to avoid the disclosure of private enterprise.

MASSACHUSETTS

Fisheries of Massachusetts, 1930

OPERATING UNITS: By gear

Item	Purse seines		Haul seines	Gill nets		Lines		Pound nets	Floating traps	Weirs
	Mackerel	Other		Anchor	Drift	Hand	Trawl			
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:										
On vessels	1, 019	------	------	209	681	254	1, 243	------	------	------
On boats and shore—										
Regular	74	2	34	70	187	173	535	196	34	8
Casual	------	6	8	2	3	10	1	------	------	------
Total	1, 093	8	42	281	871	437	1, 779	196	34	8
Vessels:										
Motor—										
5 to 10 tons	5	------	------	4	7	1	5	------	------	------
11 to 20 tons	33	------	------	8	40	6	18	------	------	------
21 to 30 tons	16	------	------	9	12	1	1	------	------	------
31 to 40 tons	11	------	------	------	7	1	2	------	------	------
41 to 50 tons	9	------	------	1	6	------	6	------	------	------
51 to 60 tons	9	------	------	------	3	3	10	------	------	------
61 to 70 tons	5	------	------	------	1	4	14	------	------	------
71 to 80 tons	------	------	------	------	------	1	7	------	------	------
81 to 90 tons	2	------	------	------	------	1	3	------	------	------
91 to 100 tons	1	------	------	------	------	------	3	------	------	------
111 to 120 tons	------	------	------	------	------	------	2	------	------	------
121 to 130 tons	------	------	------	------	------	------	1	------	------	------
131 to 140 tons	------	------	------	------	------	------	1	------	------	------
Total	91	------	------	22	76	18	73	------	------	------
Net tonnage	2, 823	------	------	433	1, 699	729	3, 685	------	------	------
Sail—5 to 10 tons	------	------	------	------	------	1	------	------	------	------
Net tonnage	------	------	------	------	------	6	------	------	------	------
Total vessels	91	------	------	22	76	19	73	------	------	------
Total net tonnage	2, 823	------	------	433	1, 699	735	3, 685	------	------	------
Boats:										
Motor	14	3	8	49	67	118	202	59	13	2
Other	15	5	18	41	44	33	24	103	19	4
Accessory boats	109	------	------	------	50	9	643	------	------	------
Apparatus:										
Number	105	3	13	2, 034	9, 461	583	54, 956	136	19	6
Length, yards	50, 098	410	2, 225	------	------	------	------	------	------	------
Square yards	------	------	------	653, 340	3, 286, 236	------	------	------	------	------
Hooks, baits, or snoods	------	------	------	------	------	849	2, 730, 464	------	------	------

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[1] Salaried employees are included with wage earners.

Fisheries of Massachusetts, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Fyke nets	Dip nets	Push nets	Otter trawls	Box traps	Pots				Harpoons, swordfish
						Crab	Eel	Lobster	Periwinkle or cockle	
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:										
On vessels				2,410				5		979
On boats and shore—										
Regular	19	110	18	190	5	22	52	635	11	49
Casual	8	13	35				7	287		
Total	27	123	53	2,600	5	22	59	927	11	1,028
Vessels:										
Steam—										
91 to 100 tons				5						
111 to 120 tons				6						
121 to 130 tons				1						
131 to 140 tons				1						
151 to 160 tons				1						
171 to 180 tons				2						
181 to 190 tons				1						
201 to 210 tons				1						
211 to 220 tons				2						
241 to 250 tons				1						
261 to 270 tons				1						
Total				22						
Net tonnage				3,291						
Motor—										
5 to 10 tons				25				3		10
11 to 20 tons				79						31
21 to 30 tons				23						8
31 to 40 tons				14						7
41 to 50 tons				15						5
51 to 60 tons				25						15
61 to 70 tons				10						6
71 to 80 tons				9						6
81 to 90 tons				3						1
91 to 100 tons				7						
101 to 110 tons				5						
111 to 120 tons				13						
131 to 140 tons										1
151 to 160 tons				1						
161 to 170 tons				1						
171 to 180 tons				2						
201 to 210 tons				1						
Total				233				3		90
Net tonnage				9,649				21		3,139
Total vessels				255				3		90
Total net tonnage				12,940				21		3,139
Boats:										
Motor	3	27		76		22	37	643	7	17
Other	19	11	28		1		26	431	4	29
Accessory boats								12		203
Apparatus:										
Number	52	61	53	331	1	1,735	1,782	69,249	1,012	107
Yards at mouth				9,750						

Fisheries of Massachusetts, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Spears	Dredges			Tongs	Rakes	Forks	Hoes	By hand	Total, exclusive of duplication
		Clam	Oyster	Scallop						
	Numbre	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:										
On vessels		26	11	68		8				4,445
On boats and shore—										
Regular	114	123	18	371	137	436	343	322	10	2,859
Casual	97		6	464	45	114	195	258	21	1,377
Total	211	149	35	903	182	558	538	580	31	8,681
Vessels:										
Steam—										
91 to 100 tons										5
111 to 120 tons										6
121 to 130 tons										1
131 to 140 tons										1
151 to 160 tons										1
171 to 180 tons										2
181 to 190 tons										1
201 to 210 tons										1
211 to 220 tons										2
241 to 250 tons										1
261 to 270 tons										1
Total										22
Net tonnage										3,291
Motor—										
5 to 10 tons		5	3	8		1				50
11 to 20 tons		5	1	7		2				130
21 to 30 tons										38
31 to 40 tons				1						24
41 to 50 tons										25
51 to 60 tons										41
61 to 70 tons										27
71 to 80 tons										17
81 to 90 tons										6
91 to 100 tons										10
101 to 110 tons										5
111 to 120 tons										15
121 to 130 tons										1
131 to 140 tons										1
151 to 160 tons										1
161 to 170 tons										1
171 to 180 tons										2
201 to 210 tons										1
Total		10	4	16		3				395
Net tonnage		92	40	200		30				15,384
Sail—5 to 10 tons										1
Net tonnage										6
Total vessels		10	4	16		3				418
Total net tonnage		92	40	200		30				18,681
Boats:										
Motor		67	10	556	65	72	16	28		1,669
Other	68				112	469	97	248		1,477
Accessory boats										979
Apparatus:										
Number	201	78	26	2,877	183	552	538	610		
Yards at mouth		40	27	2,337						

Fisheries of Massachusetts, 1930—Continued

CATCH: BY GEAR

Species	Purse seines				Haul seines		Gill nets			
	Mackerel		Other				Anchor		Drift	
	Pounds	*Value*	*Lbs.*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	194, 600	$2, 349			879, 000	$8, 790				
Bluefish					900	108	4, 215	$889	28, 000	$2, 800
Butterfish	17, 130	1, 203					2, 450	180	500	45
Catfish and bullheads							13, 200	480		
Cod							4, 198, 601	181, 595		
Cusk							7, 581	136		
Flounders							2, 595	101		
Haddock							1, 488, 224	49, 443		
Hake							1, 189, 261	18, 982		
Herring, sea	331, 660	4, 058			2, 500	38			6, 000	120
Launce			80, 750	$1, 340	80, 000	1, 600				
Mackerel	38, 390, 393	1, 289, 713			23, 500	1, 175	253, 555	12, 639	5, 106, 885	200, 604
Pollock							8, 577, 040	132, 399		
Sea bass									1, 000	150
Shad	19, 001	367			8, 000	560	4, 588	295	100	8
Sharks	1, 921	104					9, 771	352		
Skates							388	25		
Striped bass					16, 000	3, 875				
White perch					450	45				
Wolffish							112	2		
Total	38, 954, 705	1, 297, 794	80, 750	1, 340	1, 010, 350	16, 191	15, 751, 581	397, 518	5, 142, 485	203, 727

Species	Lines				Pounds net		Floating traps	
	Hand		Trawl					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					131, 151	$1, 288	4, 000	$55
Bluefish	129, 175	$10, 940			32, 417	3, 805	2, 935	358
Bonito					80, 617	6, 357		
Butterfish			540	$27	551, 879	45, 053	56, 099	4, 954
Carp					2, 976	59		
Catfish and bullheads			24, 140	598			385	14
Cod	3, 361, 921	97, 077	29, 646, 776	902, 932	42, 241	1, 384	43, 345	1, 288
Cusk	223, 033	5, 787	3, 755, 171	83, 591				
Eels	3, 100	310	81, 488	1, 640	2, 147	172		
Flounders	52, 380	2, 088	2, 474, 152	110, 500	39, 793	2, 141		
Grayfish					56, 196	2, 370		
Haddock	1, 513, 361	51, 554	43, 182, 335	1, 414, 691			900	27
Hake	228, 824	6, 712	7, 677, 567	149, 214				
Halibut	60, 953	10, 222	2, 140, 082	322, 505				
Herring, sea					2, 548, 092	29, 189	847, 672	12, 432
King whiting or "Kingfish"					200	21		
Launce							9, 676	194
Mackerel	23, 500	1, 445	495	59	1, 198, 023	42, 835	353, 908	13, 502
Pollock	177, 943	3, 023	1, 483, 940	26, 812	6, 073	117	119, 010	1, 788
Rosefish			294	4				
Salmon							30	9
Scup or porgy	469, 370	23, 623			176, 897	6, 603		
Sea bass	73, 718	6, 146			2, 760	437		
Sea robin					100	1		
Shad					21, 967	1, 688		
Sharks					27, 815	194		
Skates			16, 500	330	1, 541	42		
Smelt	6, 200	2, 717						
Squeteagues or "sea trout":								
Gray					1, 238	149		
Spotted					1, 246	221		
Striped bass	4, 500	1, 150			4, 785	612		
Sturgeon					695	191		
Swordfish	266	62	21, 116	4, 094				
Tautog	77, 850	4, 895			31, 258	1, 843		
Tuna or "horse mackerel"			85	8	58, 226	4, 520	5, 520	386
Whiting					5, 349, 460	46, 793	1, 809, 440	15, 402
Wolffish	30, 431	646	346, 574	8, 944				
Squid					3, 128, 549	51, 404	367, 011	7, 460
Total	6, 436, 525	228, 397	90, 851, 255	3, 025, 949	13, 498, 342	249, 489	3, 619, 931	57, 869

Fisheries of Massachusetts, 1930—Continued

CATCH: BY GEAR—Continued

Species	Weirs		Fyke nets		Dip nets		Push nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	3, 245	$4			474, 400	$4, 269		
Bluefish	12, 000	1, 800						
Bonito	1, 800	162						
Butterfish	11, 525	1, 630						
Cod	10, 711	89						
Eels			79, 460	$9, 979				
Grayfish	27, 500	500						
Herring, sea	53, 625	1, 030			4, 897, 500	66, 600		
Mackerel	53, 449	2, 865			100, 000	1, 800		
Minnows					6, 000	1, 200		
Striped bass	2, 100	462						
Tautog	602	20						
Tuna or " horse mackerel "	1, 200	120						
Whiting	517, 703	12, 559						
Shrimp					4, 800	3, 600		
Squid	334, 446	10, 058						
Scallops: Bay							70, 200	$20, 550
Total	1, 029, 906	31, 299	79, 460	9, 979	5, 482, 700	77, 469	70, 200	20, 550

Species	Otter trawls		Box traps		Pots			
					Crab		Eel	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	800	$28	100, 000	$750				
Bluefish	665	52						
Butterfish	214, 990	19, 075						
Catfish and bullheads	64, 400	1, 290						
Cod	40, 218, 629	1, 173, 983						
Croaker	140, 005	5, 600						
Cunner	18, 735	574						
Cusk	727, 291	14, 035						
Eels	9, 670	345					237, 850	$24, 254
Flounders	28, 759, 989	1, 147, 628						
Frigate mackerel	384, 661	17, 921						
Goosefish	200	3						
Grayfish	600	12						
Haddock	156, 502, 969	4, 925, 534						
Hake	10, 144, 917	237, 150						
Halibut	679, 409	112, 911						
Launce							12, 500	1, 250
Mackerel	27, 568	3, 021						
Pollock	4, 650, 670	97, 333						
Rosefish	109, 563	2, 185						
Salmon	25	1						
Scup or porgy	145, 741	5, 572						
Sea bass	64, 109	2, 644						
Shad	493	23						
Sharks	8, 783	287						
Skates	33, 374	419						
Smelt	50	2						
Sturgeon	7, 050	824						
Swordfish	18, 515	3, 008						
Tuna or "horse mackerel"	1, 035	189						
Whiting	225, 685	6, 965						
Wolffish	2, 143, 874	42, 378						
Crabs, hard					396, 400	$74, 350		
Total	245, 304, 465	7, 820, 992	100, 000	750	396, 400	74, 350	250, 350	25, 504

Fisheries of Massachusetts, 1930—Continued

CATCH: BY GEAR—Continued

Species	Pots				Harpoons, swordfish		Spears	
	Lobster		Periwinkle or cockle					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					2, 650	$97		
Eels							65, 350	$7, 766
Flounders							6, 000	180
Sharks					779	39		
Swordfish					3, 688, 436	650, 429		
Crabs, hard	61, 898	$11, 930						
Lobsters	2, 338, 234	625, 946						
Clams, cockle			9, 450	$1, 975				
Periwinkles			14, 742	3, 587				
Total	2, 400, 132	637, 876	24, 192	5, 562	3, 691, 865	650, 565	71, 350	7, 946

Species	Dredges						Tongs	
	Clam		Oyster		Scallop			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams:								
Cockle					11, 700	$1, 950		
Hard, public	906, 712	$182, 847					149, 560	$43, 250
Hard, private	14, 400	3, 000					3, 600	2, 049
Surf or skimmer					1, 600	350		
Mussels					10, 800	2, 100		
Oysters:								
Market, public, spring							700	200
Market, private, spring			103, 188	$45, 262	9, 625	3, 750	108, 762	51, 399
Market, private, fall			82, 105	33, 519	5, 390	1, 750	116, 374	51, 770
Seed, private, spring			63, 000	4, 500	38, 808	1, 386	14, 000	1, 000
Seed, public, fall							31, 500	2, 250
Periwinkles					2, 700	300		
Scallops:								
Bay					1, 351, 444	372, 265		
Sea					510, 738	77, 122		
Total	921, 112	185, 847	245, 893	83, 281	1, 942, 805	460, 973	424, 566	151, 918

Species	Rakes		Forks		Hoes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams:								
Cockle							3, 420	$790
Hard, public	833, 432	$250, 913						
Hard, private	48, 000	2, 100						
Razor					380, 266	$20, 476		
Soft public			1, 794, 992	$145, 327	1, 478, 660	130, 607		
Surf or skimmer					31, 875	2, 200	4, 800	1, 200
Oysters, market, private, fall	7, 700	3, 000						
Scallops, bay							13, 500	3, 750
Irish moss	93, 000	5, 580						
Total	982, 132	261, 593	1, 794, 992	145, 327	1, 890, 801	153, 283	21, 720	5, 740

Fisheries of Massachusetts, 1930—Continued

OPERATING UNITS: BY COUNTIES

Item	Barnstable	Bristol	Dukes	Essex	Nantucket	Norfolk	Plymouth	Suffolk
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:								
On vessels	132	185	37	1,977	76		5	2,033
On boats and shore—								
Regular	898	274	170	633	57	67	256	504
Casual	321	94	75	337	61	58	331	100
Total	1,351	553	282	2,947	194	125	592	2,637
Vessels:								
Steam—								
91 to 100 tons								5
111 to 120 tons								6
121 to 130 tons								1
131 to 140 tons								1
151 to 160 tons								1
171 to 180 tons								2
181 to 190 tons				1				
201 to 210 tons								1
211 to 220 tons								2
241 to 250 tons								1
261 to 270 tons								1
Total				1				21
Net tonnage				184				3,107
Motor—								
5 to 10 tons	13	5	3	8	8		3	10
11 to 20 tons	11	5	3	40	12			59
21 to 30 tons		5	1	18	1			13
31 to 40 tons		5		12				7
41 to 50 tons		4		14				7
51 to 60 tons		1		25				15
61 to 70 tons	1			15				11
71 to 80 tons				13				4
81 to 90 tons				3				3
91 to 100 tons				6				4
101 to 110 tons				1				4
111 to 120 tons				3				12
121 to 130 tons								1
131 to 140 tons								1
151 to 160 tons								1
161 to 170 tons								1
171 to 180 tons								2
201 to 210 tons								1
Total	25	25	7	158	21		3	156
Net tonnage	327	662	97	6,815	233		25	7,225
Sail, 5 to 10 tons	1							
Net tonnage	6							
Total vessels	26	25	7	159	21		3	177
Total net tonnage	333	662	97	6,999	233		25	10,332
Boats:								
Motor	497	202	160	283	74	43	249	161
Other	498	153	142	346	47	23	253	15
Accessory boats	35	7	18	590	9			320
Apparatus:								
Purse seines—								
Mackerel	4	3	1	59				38
Length, yards	1,850	378	500	28,890				18,480
Other	3							
Length, yards	410							
Haul seines	5	1	1	5			1	
Length, yards	1,300	100	450	350			25	
Gill nets—								
Anchor	686			1,281		7	6	54
Square yards	159,820			476,360		1,680	1,440	14,040
Drift	1,022	210	143	5,524			47	2,515
Square yards	356,760	75,600	44,616	1,924,020			20,240	865,000
Lines—								
Hand	56	148	19	278	2	10	14	56
Hooks	65	296	19	377	2	20	14	56
Trawl	4,736		240	23,036			180	26,764
Hooks	236,800		7,800	1,143,336			6,480	1,336,048

Fisheries of Massachusetts, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Barnstable	Bristol	Dukes	Essex	Nantucket	Norfolk	Plymouth	Suffolk
Apparatus—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Pound nets	97	15	14	1	4	--------	5	--------
Floating traps	7	--------	--------	12	--------	--------	--------	--------
Weirs	6	--------	--------	--------	--------	--------	--------	--------
Fyke nets	42	7	3	--------	--------	--------	--------	--------
Dip nets	17	--------	--------	8	--------	7	14	15
Push nets	45	--------	--------	--------	8	--------	--------	--------
Otter trawls	56	25	15	69	21	--------	--------	145
Yards at mouth	1, 575	850	395	2, 080	570	--------	--------	4, 280
Box traps	--------	--------	--------	--------	--------	--------	1	--------
Pots—								
Crab	--------	--------	--------	--------	--------	50	35	1, 650
Eel	637	145	275	45	620	--------	60	--------
Lobster	8, 752	11, 980	8, 779	19, 129	1, 221	3, 426	12, 137	3, 825
Periwinkle and cockle	850	--------	--------	75	--------	--------	87	--------
Harpoons, swordfish	20	8	5	53	3	--------	--------	18
Spears	66	51	1	15	--------	--------	68	--------
Dredges—								
Clam	41	17	3	--------	17	--------	--------	--------
Yards at mouth	20	9	1	--------	10	--------	--------	--------
Oyster	20	4	--------	--------	--------	--------	2	--------
Yards at mouth	21	3	--------	--------	--------	--------	3	--------
Scallop	729	465	542	--------	406	--------	734	1
Yards at mouth	574	419	452	--------	277	--------	613	2
Tongs	64	70	--------	--------	--------	--------	49	--------
Rakes	295	46	87	--------	48	--------	76	--------
Forks	41	9	1	275	--------	75	12	125
Hoes	140	--------	--------	338	--------	--------	117	15

CATCH: BY COUNTIES

Species	Barnstable		Bristol		Dukes		Essex	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	361, 808	$3, 206	6, 848	$116	785, 940	$7, 692	197, 250	$2, 461
Bluefish	112, 728	11, 698	7, 235	440	19, 309	2, 387	67, 935	5, 558
Bonito	60, 581	4, 792	500	40	7, 236	559	--------	--------
Butterfish	448, 980	36, 329	22, 536	1, 876	82, 118	6, 940	156, 589	13, 490
Carp	2, 976	59	--------	--------	--------	--------	--------	--------
Catfish and bullheads	29, 700	596	2, 700	54	--------	--------	37, 725	1, 092
Cod	4, 193, 539	152, 026	3, 020, 401	77, 974	265, 205	7, 447	25, 761, 505	803, 393
Croaker	--------	--------	140, 005	5, 600	--------	--------	--------	--------
Cunner	--------	--------	415	23	--------	--------	--------	--------
Cusk	95, 644	1, 811	1, 634	28	--------	--------	2, 119, 156	47, 230
Eels	144, 650	16, 588	30, 207	3. 321	72, 500	7, 536	88, 268	2, 316
Flounders	4, 506, 096	141, 856	4, 873, 326	239, 798	1, 117, 831	35, 910	2, 341, 666	105, 582
Frigate mackerel	--------	--------	--------	--------	--------	--------	20, 150	888
Goosefish	--------	--------	--------	--------	--------	--------	200	3
Grayfish	38, 096	811	1, 200	15	40, 000	2, 000	--------	--------
Haddock	4, 101. 828	123, 162	12, 422, 658	381, 483	204, 726	7, 023	53, 942, 434	1, 748, 115
Hake	895, 775	17, 481	202, 802	2, 573	17, 040	328	5, 564, 841	101, 279
Halibut	6, 765	1, 033	46, 597	7, 225	--------	--------	1, 892, 731	286, 736
Herring, sea	2, 737, 152	32, 365	25, 487	297	--------	--------	1, 050, 140	14, 551
King whiting or "kingfish"	100	13	--------	--------	--------	--------	--------	--------
Launce	90, 426	1, 534	--------	--------	--------	--------	92, 500	2, 850
Mackerel	3, 079, 155	109, 566	723, 090	16, 605	385, 929	15, 159	27, 390, 087	942, 841
Minnows	6, 000	1, 200	--------	--------	--------	--------	--------	--------
Pollock	155, 854	2, 805	53, 293	1, 050	6, 860	131	9, 868, 067	156, 413
Rosefish	--------	--------	435	9	--------	--------	21, 269	414
Salmon	--------	--------	--------	--------	--------	--------	30	9
Scup or porgy	56, 503	2, 912	476, 360	23, 305	134, 795	4, 346	--------	--------
Sea bass	2, 750	300	96, 215	6, 851	1, 622	176	--------	--------
Sea robin	100	1	--------	--------	--------	--------	--------	--------
Shad	21, 778	1, 674	89	6	--------	--------	30, 399	1, 167
Sharks	440	5	25, 575	135	--------	--------	14, 298	587
Skates	--------	--------	2, 723	54	--------	--------	463	27
Smelt	--------	--------	--------	--------	--------	--------	4, 100	2, 465
Squeteagues or "sea trout":								
Gray	--------	--------	1, 238	149	--------	--------	--------	--------
Spotted	200	40	--------	--------	546	81	--------	--------
Striped bass	27, 385	6, 099	--------	--------	--------	--------	--------	--------
Sturgeon	350	96	740	142	--------	--------	700	67

Fisheries of Massachusetts, 1930—Continued

CATCH: By counties—Continued

Species	Barnstable		Bristol		Dukes		Essex	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Swordfish	341, 099	$60, 182	155, 997	$21, 190	297, 144	$51, 893	2, 293, 767	$416, 025
Tautog	16, 203	950	59, 337	3, 500	21, 570	1, 300		
Tuna or "horse mackerel"	64, 296	4, 961			650	65	1, 120	197
White perch			450	45				
Whiting	6, 095, 473	60, 203	11, 152	198	6, 728	135	1, 201, 100	11, 112
Wolffish	48, 667	953	90, 347	1, 283			391, 792	7, 564
Crabs, hard							37, 708	8, 117
Lobsters	326, 062	83, 308	259, 404	68, 350	356, 641	79, 202	607, 880	189, 771
Shrimp	4, 800	3, 600						
Squid	3, 416, 401	61, 754	150, 689	2, 062	92, 921	1, 586	113, 195	2, 384
Clams:								
Cockle	7, 020	1, 690						
Hard, public	1, 069, 280	253, 940	316, 120	93, 550	160, 880	53, 798		
Hard, private	51, 600	4, 149						
Razor	251, 546	14, 201						
Soft public	121, 760	25, 653	3, 600	900	1, 000	225	1, 955, 692	158, 171
Surf or skimmer			4, 800	1, 200	1, 600	350	31, 875	2, 200
Oysters:								
Market, private, spring	200, 808	92, 086						
Market, private, fall	197, 794	85, 122	6, 160	1, 950				
Seed, private, spring			77, 000	5, 500				
Seed, public, fall	31, 500	2, 250						
Periwinkles	9, 324	2, 383			2, 700	300	2, 160	480
Scallops:								
Bay	600, 274	167, 335	149, 670	43, 637	386, 586	107, 385		
Sea	47, 940	8, 734	462, 420	68, 320				
Total	34, 079, 206	1, 603, 512	23, 931, 455	1, 080, 854	4, 470, 077	393, 954	137, 298, 792	5, 035, 555

Species	Nantucket		Norfolk		Plymouth		Suffolk	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives			22, 500	$225	397, 500	$3, 750	18, 000	$180
Bluefish	2, 500	$625					600	44
Bonito	14, 100	1, 128						
Butterfish	35, 250	3, 878					109, 640	9, 654
Catfish and bullheads							32, 000	640
Cod	1, 120, 889	30, 786	11, 000	300	100, 518	3, 525	43, 049, 167	1, 282, 897
Cunner							18, 320	551
Cusk							2, 496, 642	54, 480
Eels	111, 000	11, 100			22, 850	3, 266	9, 590	339
Flounders	3, 480, 355	164, 051	2, 600	156	7, 000	420	15, 006, 035	574, 865
Frigate mackerel							364, 511	17, 033
Grayfish	4, 400	44					600	12
Haddock	1, 421, 989	29, 567			28, 600	780	130, 565, 554	4, 151, 119
Hake	418	8					12, 559, 693	290, 389
Halibut	3, 168	482					931, 183	150, 162
Herring, sea			17, 500	200	836, 500	6, 274	4, 020, 270	59, 780
King whiting or "kingfish"	100	8						
Mackerel	37, 600	2, 632	9, 000	360	104, 750	3, 139	13, 801, 665	479, 356
Pollock	5, 610	203	1, 650	60			4, 923, 342	100, 810
Rosefish							88, 153	1, 766
Salmon							25	1
Scup or porgy	4, 350	435					120, 000	4, 800
Sea bass	1, 000	250					40, 000	1, 800
Shad	200	16					1, 683	78
Sharks	1, 800	54					6, 956	195
Skates							48, 617	735
Smelt			2, 100	252			50	2
Squeteagues or "sea trout," spotted	500	100						
Sturgeon							5, 955	710
Swordfish	115, 568	15, 503					524, 758	92, 800
Tautog					12, 600	1, 008		
Whiting					381, 950	3, 374	205, 885	6, 697
Wolffish							1, 990, 185	42, 170
Crabs, hard			12, 290	2, 290	12, 500	1, 660	395, 800	74, 213
Lobsters	45, 368	11, 689	129, 287	39, 423	528, 591	134, 159	85, 001	20, 044
Squid	21, 000	420			35, 800	716		

Fisheries of Massachusetts, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Nantucket		Norfolk		Plymouth		Suffolk	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Clams:								
Cockle					17,550	3,025		
Hard, public	285,424	59,360			58,000	16,362		
Hard, private	14,400	3,000						
Razor					128,720	6,275		
Soft, public			54,000	5,085	143,600	15,150	994,000	70,750
Mussels							10,800	2,100
Oysters:								
Market, public, spring					770	200		
Market, private, spring					21,367	8,325		
Market, private, fall					7,615	2,967		
Seed, private, spring					38,808	1,386		
Periwinkles					3,258	724		
Scallops:								
Bay	106,194	29,898			192,420	48,310		
Sea	378	68						
Irish moss					93,000	5,580		
Total	6,833,561	365,305	261,927	48,351	3,174,267	270,375	232,424,680	7,491,172

Industries related to the fisheries of Massachusetts, 1930

TRANSPORTING

Item	Barnstable County	Suffolk County	Total
	Number	*Number*	*Number*
Persons engaged on vessels	2	28	30
Vessels, motor—			
5 to 10 tons	2	2	4
11 to 20 tons		5	5
21 to 30 tons		2	2
41 to 50 tons		1	1
Total	2	10	12
Net tonnage	12	187	199

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Barnstable County	Bristol County	Dukes, Middlesex, Nantucket, and Norfolk Counties	Essex County	Plymouth County	Suffolk County	Total
Establishments	27	11	4	44	8	99	193
Persons engaged:							
Proprietors	11	7	2	28	7	22	77
Salaried employees	27	22	4	211	6	492	762
Wage earners—							
Average for season	227	58	32	1,172	24	1,221	2,734
Average for year	166	41	30	1,003	15	1,174	2,429
Paid to salaried employees	$56,478	$28,885	$8,276	$541,072	$9,380	$1,342,606	$1,986,697
Paid to wage earners	196,895	53,137	38,730	1,123,654	21,817	1,771,893	3,206,126
Total salaries and wages	253,373	82,022	47,006	1,664,726	31,197	3,114,499	5,192,823

Industries related to the fisheries of Massachusetts, 1930—Continued

WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Cod:		
Fresh fillets ... pounds	3,732,070	$538,878
Frozen fillets ... do	1,291,480	165,447
Salted ... do	6,659,091	552,300
Smoked fillets ... do	567,217	80,085
Oil, cod-liver ... gallons	101,980	81,195
Cusk:		
Fresh fillets ... pounds	282,680	43,067
Salted ... do	398,649	18,448
Smoked fillets ... do	867,145	122,400
Flounders:		
Fresh fillets ... do	1,210,243	233,664
Frozen fillets ... do	309,110	53,073
Haddock:		
Fresh fillets ... do	40,244,170	6,300,610
Frozen fillets ... do	12,655,276	1,974,343
Salted ... do	558,132	32,781
Finnan haddie ... do	4,099,511	346,261
Smoked fillets ... do	720,748	125,407
Canned flakes ... standard cases	20,142	202,864
Hake:		
Fresh fillets ... pounds	2,008,907	259,974
Frozen fillets ... do	335,127	45,134
Salted ... do	1,800,022	87,789
Smoked fillets ... do	14,000	1,900
Halibut, frozen fillets ... do	8,379	2,409
Herring, sea:		
Smoked—		
Bloaters ... do	1,131,417	186,258
Kippered ... do	179,467	40,041
Mackerel:		
Fresh fillets ... do	139,012	27,798
Salted fillets ... do	1,969,626	229,709
Salted ... do	2,277,667	190,299
Pollock:		
Fresh fillets ... do	272,714	35,648
Frozen fillets ... do	3,030	394
Salted ... do	2,957,113	162,591
Wolffish:		
Fresh fillets ... do	19,812	3,719
Frozen fillets ... do	37,410	5,241
Crab meat, packaged (fresh-cooked) ... do	169,383	93,061
Lobster meat, packaged (fresh-cooked) ... do	103,716	129,488
Clams, soft, fresh-shucked ... gallons	10,125	16,325
Oysters, fresh-shucked ... do	2,279	6,305
Unclassified products:		
Fresh and frozen [1] ... pounds	484,671	52,184
Salted [2] ... do	664,802	35,055
Smoked [3] ... do	529,612	210,670
Canned [4] ... standard cases	167,084	1,189,181
Glue ... gallons	497,838	1,175,826
Meal ... tons	11,224	722,997
By-products [5]	(6)	88,601
Total		15,869,420

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[1] Includes fresh halibut and whiting fillets; frozen cusk, mackerel, and salmon fillets; and whiting sticks.

[2] Includes salted alewives, herring, Bismarck herring, Scotch-cured herring, split mackerel, mackerel fillets, salmon, shad, and tongues and cheeks.

[3] Includes smoked alewives, butterfish, flounders, lake trout, mackerel, salmon, shad, and whitefish.

[4] Includes the following canned products: Cod cakes, cod balls, etc., mackerel, haddock chowder, creamed fish, finnan haddie, roe, dog food, and clam products.

[5] Includes isinglass, dry scrap, blackfish oil, tanner's oil, and buttons and novelties from imported marine shells.

[6] Data not available.

Industries related to the fisheries of Massachusetts, 1930—Continued

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 3,325]

Item	Quantity	Value
Alewives:		
Salted .... pounds..	120,000	$6,200
Smoked .... do....	16,500	963
Pickled .... do....	303,800	7,974
Cod, salted .... do....	1,118,785	54,340
Cusk, salted .... do....	22,182	554
Hake, salted .... do....	10,440	131
Halibut, salted .... do....	5,220	649
Mackerel, salted .... do....	68,230	2,856
Pollock, salted .... do....	1,060	23
Clams, soft, fresh-shucked .... gallons..	129,988	145,988
Scallops:		
Bay, fresh-shucked .... do....	159,000	395,000
Sea, fresh-shucked .... do....	56,000	77,000
Total	----------	691,678

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 2,606 have been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

RHODE ISLAND

Fisheries of Rhode Island, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines	Gill nets		Lines		Pound nets	Floating traps
	Mackerel	Other		Drift	Run-around	Hand	Trawl		
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:									
On vessels	24	16	--------	13	--------	69	20	6	130
On boats and shore—									
Regular	--------	--------	67	1	31	142	23	43	77
Casual	--------	--------	--------	1	--------	32	--------	--------	--------
Total	24	16	67	15	31	243	43	49	207
Vessels:									
Steam—									
5 to 10 tons	--------	--------	--------	--------	--------	--------	--------	--------	1
11 to 20 tons	--------	--------	--------	--------	--------	--------	--------	--------	3
41 to 50 tons	--------	1	--------	--------	--------	--------	--------	--------	2
Total	--------	1	--------	--------	--------	--------	--------	--------	6
Net tonnage	--------	45	--------	--------	--------	--------	--------	--------	139
Motor—									
5 to 10 tons	1	--------	--------	3	--------	21	7	2	1
11 to 20 tons	3	--------	--------	1	--------	3	1	--------	3
21 to 30 tons	--------	--------	--------	--------	--------	--------	--------	--------	1
Total	4	--------	--------	4	--------	24	8	2	5
Net tonnage	44	--------	--------	35	--------	187	61	12	68
Total vessels	4	1	--------	4	--------	24	8	2	11
Total net tonnage	44	45	--------	35	--------	187	61	12	207
Boats:									
Motor	--------	--------	2	1	5	99	12	3	12
Other	--------	--------	50	1	14	55	--------	36	46
Accessory boats	6	2	12	2	--------	24	8	4	35
Apparatus:									
Number	4	1	27	161	12	432	1,193	62	62
Length, yards	560	320	3,110	--------	--------	--------	--------	--------	--------
Square yards	--------	--------	--------	59,640	24,100	--------	--------	--------	--------
Hooks, baits, or snoods	--------	--------	--------	--------	--------	587	56,550	--------	--------

Fisheries of Rhode Island, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Fyke nets	Dip nets	Otter trawls	Box traps	Pots			Harpoons	Spears
					Eel	Lobster	Periwinkle		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			212			41		92	
On boats and shore—									
Regular	12	14	31	5	34	308	14	38	35
Casual	1	3	1		6	108	6		2
Total	13	17	244	5	40	457	20	130	37
Vessels:									
Steam—									
5 to 10 tons			1						
11 to 20 tons			3						
Total			4						
Net tonnage			45						
Motor—									
5 to 10 tons			34			18		25	
11 to 20 tons			9			1		5	
21 to 30 tons			1						
Total			44			19		30	
Net tonnage			380			136		249	
Total vessels			48			19		30	
Total net tonnage			425			136		249	
Boats:									
Motor	7	9	18	2	19	296	8	19	1
Other	6			2	17	42	8	18	11
Accessory boats						18		31	
Apparatus:									
Number	40	17	66	4	2,015	39,165	875	49	37
Yards at mouth			1,824						

Item	Dredges			Tongs	Rakes	Forks	Hoes	By hand	Total, exclusive of duplication
	Clam	Oyster	Scallop						
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	2	68							356
On boats and shore—									
Regular	10		100	337	118	10	6	2	870
Casual	2		81	187	38	3	4	2	403
Total	14	68	181	524	156	13	10	4	1,629
Vessels:									
Steam—									
5 to 10 tons									1
11 to 20 tons									3
21 to 30 tons		1							1
41 to 50 tons		1							3
51 to 60 tons		1							1
Total		3							9
Net tonnage		126							265
Motor—									
5 to 10 tons	1	2							50
11 to 20 tons		9							21
21 to 30 tons		1							2
51 to 60 tons		1							1
Total	1	13							74
Net tonnage	7	231							747
Total vessels	1	16							83
Total net tonnage	7	357							1,012
Boats:									
Motor	5		106	180	50		2	1	578
Other			2	428	109	13	8	1	673
Accessory boats				34					160
Apparatus:									
Number	6	32	532	523	156	13	10		
Yards at mouth	4	49	414						

Fisheries of Rhode Island, 1930—Continued

CATCH: BY GEAR

Species	Purse seines				Haul seines		Gill nets			
	Mackerel		Other				Drift		Runaround	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	--------	------	--------	------	--------	-------	3, 000	$360	31, 000	$5, 360
Eels	--------	------	--------	------	165, 200	$17, 740	--------	------	--------	------
Flounders	--------	------	--------	------	20, 000	1, 000	--------	------	--------	------
Mackerel	182, 500	$4, 750	86, 100	$1, 507	--------	-------	132, 000	2, 320	--------	------
Menhaden	--------	------	114, 800	861	--------	-------	--------	------	--------	------
Smelt	--------	------	--------	------	50, 000	7, 500	--------	------	--------	------
Squeteague or "sea trout," gray	--------	------	--------	------	10, 680	1, 200	--------	------	5, 000	750
Striped bass	--------	------	--------	------	32, 000	5, 760	--------	------	--------	------
Suckers	--------	------	--------	------	7, 600	152	--------	------	--------	------
Tomcod	--------	------	--------	------	1, 600	32	--------	------	--------	------
White perch	--------	------	--------	------	27, 600	2, 760	--------	------	--------	------
Total	182, 500	4, 750	200, 900	2, 368	314, 680	36, 144	135, 000	2, 680	36, 000	6, 110

Species	Lines				Pound nets		Floating traps	
	Hand		Trawl					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Albacore	--------	-------	--------	-------	--------	-------	34, 759	$703
Alewives	--------	-------	--------	-------	173, 400	$1, 589	12, 650	104
Bluefish	10, 000	$750	--------	-------	41, 000	2, 217	158, 295	20, 829
Bonito	--------	-------	--------	-------	--------	-------	57, 439	4, 221
Butterfish	--------	-------	--------	-------	170, 605	9, 962	730, 515	38, 755
Cod	941, 737	38, 875	187, 970	$8, 041	10, 890	323	331, 808	14, 536
Cunner	16, 000	320	--------	-------	1, 300	26	5, 300	200
Eels	44, 780	3, 944	--------	-------	103, 100	8, 385	21, 812	1, 139
Flounders	8, 200	406	2, 200	110	81, 400	4, 003	460, 271	22, 700
Grayfish	--------	-------	--------	-------	--------	-------	7, 800	156
Haddock	25, 025	834	756, 680	25, 486	6, 750	200	9, 383	281
Hake	15, 600	444	6, 000	175	2, 400	42	9, 260	283
Herring, sea	--------	-------	--------	-------	44, 125	875	113, 916	1, 767
Hickory shad	--------	-------	--------	-------	200	10	3, 849	75
Mackerel	15, 800	763	--------	-------	104, 400	5, 198	890, 771	37, 118
Menhaden	--------	-------	--------	-------	16, 800	168	560	10
Mullet	--------	-------	--------	-------	1, 000	40	7, 392	258
Pollock	104, 960	751	5, 500	100	--------	-------	64, 466	1, 644
Scup	--------	-------	--------	-------	253, 840	12, 673	1, 371, 750	62, 601
Sea bass	--------	-------	--------	-------	155	13	35, 579	2, 148
Sea robin	--------	-------	--------	-------	87, 450	1, 085	101, 978	1, 230
Shad	--------	-------	--------	-------	347	67	676	112
Sharks	--------	-------	--------	-------	3, 400	70	9, 580	146
Skates	6, 000	120	--------	-------	--------	-------	27, 800	556
Skipper or "billfish"	--------	-------	--------	-------	--------	-------	6, 068	1, 248
Smelt	--------	-------	--------	-------	975	180	--------	-------
Squeteague or "sea trout," gray	12, 100	1, 224	--------	-------	68, 540	8, 028	44, 825	4, 214
Striped bass	475	95	--------	-------	3, 580	568	23, 762	4, 447
Sturgeon	--------	-------	--------	-------	--------	-------	1, 234	197
Tautog	144, 125	7, 238	--------	-------	88, 900	4, 339	62, 610	2, 865
Tomcod	--------	-------	--------	-------	21, 000	270	--------	-------
Tuna or "horse mackerel"	14, 000	1, 020	--------	-------	--------	-------	10, 180	881
White perch	--------	-------	--------	-------	3, 900	458	200	20
Whiting	--------	-------	--------	-------	292, 550	2, 778	1, 360, 387	18, 528
Squid	--------	-------	--------	-------	152, 150	4, 021	1, 393, 752	37, 855
Total	1, 358, 802	56, 784	958, 350	33, 912	1, 734, 157	67, 587	7, 370, 627	281, 927

Fisheries of Rhode Island, 1930—Continued

CATCH: BY GEAR—Continued

Species	Fyke nets		Dip nets		Otter trawls		Box traps	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod					80,547	$3,044		
Cunner			65,000	$1,950				
Eels	14,500	$1,450						
Flounders	13,000	580			4,115,500	118,173		
Grayfish					1,100	11		
Haddock					88,490	3,320		
Hake					29,600	780		
Herring, sea							56,670	$425
Scup					20,000	1,000		
Sea robin					4,500	45		
Shad							3,280	522
Skates					646,550	5,841		
Swordfish					3,000	500		
Tautog	14,000	700						
White perch							18,000	1,800
Whiting					264,350	5,036		
Scallops, bay			811	276				
Total	41,500	2,730	65,811	2,226	5,253,637	137,750	77,950	2,747

Species	Pots						Harpoons	
	Eel		Lobster		Periwinkle			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels	114,235	$11,122	5,550	$658				
Swordfish							606,899	$89,609
Crabs, hard			166,562	5,256				
Lobsters			1,353,107	313,550				
Periwinkles			233,460	25,940	78,750	$8,740		
Total	114,235	11,122	1,758,679	345,404	78,750	8,740	606,899	89,609

Species	Spears		Dredges					
			Clam		Oyster		Scallop	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels	25,975	$2,796						
Clams:								
Hard, public			20,460	$3,345				
Hard, private			56,100	10,200	62,453	$16,605		
Oysters:								
Market, private, spring					1,531,592	339,887		
Market, private, fall					1,832,128	392,709		
Seed, private, spring					298,500	40,750		
Scallops, bay							93,499	$40,348
Total	25,975	2,796	76,560	13,545	3,724,673	789,951	93,499	40,348

Species	Tongs		Rakes		Forks		Hoes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams:										
Hard, public	1,329,064	$262,906	275,803	$51,423					1,100	$200
Hard, private	103,895	20,700								
Soft, public					20,700	$4,527	7,740	$1,915		
Oysters:										
Market, public, spring			8,944	2,650						
Market, public, fall			8,944	2,650					135	20
Seed, public, spring	6,000	1,000							23	2
Seed, public, fall									361	47
Total	1,438,959	284,606	293,691	56,723	20,700	4,527	7,740	1,915	1,619	269

Fisheries of Rhode Island, 1930—Continued

OPERATING UNITS: BY COUNTIES

Item	Bristol	Kent	Newport	Providence	Washington
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	29	3	256	31	37
On boats and shore—					
Regular	78	235	320	72	165
Casual	63	120	118	44	58
Total	170	358	694	147	260
Vessels:					
Steam—					
5 to 10 tons	-------	-------	1	-------	-------
11 to 20 tons	-------	-------	3	-------	-------
21 to 30 tons	-------	-------	-------	1	-------
41 to 50 tons	-------	-------	2	1	-------
51 to 60 tons	-------	-------	-------	1	-------
Total	-------	-------	6	3	-------
Net tonnage	-------	-------	139	126	-------
Motor—					
5 to 10 tons	3	-------	40	-------	7
11 to 20 tons	5	1	11	1	3
21 to 30 tons	1	-------	1	-------	-------
51 to 60 tons	-------	-------	-------	1	-------
Total	9	1	52	2	10
Net tonnage	126	11	447	75	88
Total vessels	9	1	58	5	10
Total net tonnage	126	11	586	201	88
Boats:					
Motor	34	178	238	23	105
Other	108	225	140	94	106
Accessory boats	7	1	109	31	12
Apparatus:					
Purse seines—					
Mackerel	-------	-------	3	-------	1
Length, yards	-------	-------	360	-------	200
Other	-------	-------	1	-------	-------
Length, yards	-------	-------	320	-------	-------
Haul seines	-------	-------	1	16	10
Length, yards	-------	-------	300	1,775	1,025
Gill nets—					
Drift	-------	2	159	-------	-------
Square yards	-------	2,400	57,240	-------	-------
Runaround	-------	-------	10	-------	2
Square yards	-------	-------	2,100	-------	22,000
Lines—					
Hand	8	5	307	12	100
Hooks	16	3	392	12	164
Trawl	-------	-------	1,113	-------	80
Hooks	-------	-------	52,550	-------	4,000
Pound nets	-------	1	43	-------	18
Floating traps	-------	-------	45	-------	17
Fyke nets	-------	35	-------	-------	5
Dip nets	3	-------	14	-------	-------
Otter trawls	1	-------	47	-------	18
Yards at mouth	30	-------	1,339	-------	455
Box traps	2	-------	-------	2	-------
Pots—					
Eel	245	390	345	225	810
Lobster	1,822	1,080	24,736	138	11,389
Periwinkle or cockle	225	-------	425	-------	225
Harpoons, swordfish	-------	-------	44	-------	5
Spears	1	7	-------	8	21
Dredges—					
Clam	-------	3	3	-------	-------
Yards at mouth	-------	1	3	-------	-------
Oyster	16	2	-------	10	4
Yards at mouth	24	3	-------	16	6
Scallop	69	319	24	-------	120
Yards at mouth	54	250	17	-------	93
Tongs	106	252	33	87	45
Rakes	5	72	48	1	30
Forks	5	-------	-------	-------	8
Hoes	4	1	-------	5	-------

Fisheries of Rhode Island, 1930—Continued

CATCH: BY COUNTIES

Species	Bristol		Kent		Newport		Providence		Washington	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Albacore					34, 759	$703				
Alewives					66, 050	493			120, 000	$1, 200
Bluefish			3, 000	$360	173, 745	22, 950			66, 550	6, 206
Bonito					56, 389	4, 127			1, 050	94
Butterfish					776, 065	38, 291			125, 055	10, 426
Cod	1, 400	$42			1, 409, 872	59, 130			141, 680	5, 647
Cunner					71, 600	2, 176			16, 000	320
Eels	16, 400	1, 352	50, 550	5, 146	114, 962	9, 716	229, 590	$23, 894	83, 650	7, 126
Flounders	2, 000	60	12, 000	550	3, 418, 921	93, 459			1, 267, 650	52, 903
Grayfish					1, 300	15			7, 600	152
Haddock					877, 028	29, 826			9, 300	295
Hake					33, 260	944			29, 600	780
Herring, sea	26, 670	200	600	30	118, 441	1, 902	30, 000	225	39, 000	710
Hickory shad					4, 049	85				
Mackerel					1, 272, 571	45, 958			139, 000	5, 698
Menhaden					121, 160	929			11, 000	110
Mullet					8, 392	298				
Pollock					68, 046	1, 569			106, 880	026
Scup					1, 346, 590	61, 663			299, 000	14, 610
Sea bass					35, 734	2, 161				
Sea robin					70, 928	885			123, 000	1, 475
Shad	1, 800	288			673	127	1, 480	234	350	52
Sharks					11, 480	186			1, 500	30
Skates					302, 550	3, 296			377, 800	3, 221
Skipper or "bill-fish"					6, 068	1, 248				
Smelt					975	180			50, 000	7, 500
Squeteague or "sea trout," gray			820	99	49, 745	4, 665			90, 580	10, 652
Striped bass					21, 342	4, 028			38, 475	6, 842
Sturgeon					1, 234	197				
Suckers									7, 600	152
Swordfish					545, 099	80, 929			64, 800	9, 180
Tautog	11, 350	550	14, 200	708	160, 085	7, 499			124, 000	6, 385
Tomcod					6, 000	120			16, 600	182
Tuna or "horse-mackerel"					24, 180	1, 901				
White perch	10, 000	1, 000			6, 100	678	8, 000	800	25, 600	2, 560
Whiting					1, 490, 537	20, 002			426, 750	6, 440
Crabs, hard	49, 335	1, 416			117, 227	3, 840				
Lobsters	44, 458	10, 571	22, 744	5, 323	991, 570	224, 591	779	187	293, 556	72, 878
Squid					772, 902	25, 426			773, 000	16, 450
Clams:										
Hard, public	182, 765	33, 430	1, 013, 639	201, 416	126, 533	18, 935	176, 440	35, 555	127, 050	28, 538
Hard, private	126, 528	28, 255	56, 100	10, 200			39, 820	9, 050		
Soft, public	6, 540	1, 227	600	200			6, 300	1, 575	15, 000	3, 440
Oysters:										
Market, public, spring									8, 944	2, 650
Market, public, fall	135	20							8, 944	2, 650
Market, private, spring	775, 757	186, 082	16, 875	3, 375			553, 024	114, 930	185, 936	35, 500
Market, private, fall	675, 959	160, 209	16, 875	3, 375			767, 422	158, 125	371, 872	71, 000
Seed, public, spring	6, 000	1, 000			23	2				
Seed, public, fall	338	45			23	2				
Seed, private, spring	298, 500	40, 750								
Periwinkles	50, 094	5, 566			259, 686	28, 854			2, 430	260
Scallops, bay	5, 532	1, 619	42, 832	19, 850	14, 446	4, 280			31, 500	14, 875
Total	2, 291, 561	473, 682	1, 250, 835	250, 632	14, 988, 340	808, 266	1, 812, 855	344, 575	5, 628, 302	410, 115

Industries related to the fisheries of Rhode Island, 1930

TRANSPORTING

Item	Bristol County	Kent County	Newport County	Washington County	Total
	Number	*Number*	*Number*	*Number*	*Number*
Persons engaged on vessels	3	2	10	4	19
Vessels, motor:					
5 to 10 tons	1	1	2	1	5
11 to 20 tons			1		1
Total	1	1	3	1	6
Net tonnage	7	7	34	7	55

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Bristol County	Kent County	Newport County	Providence County	Washington County	Total
Establishments	8	8	6	9	3	34
Persons engaged:						
Proprietors	6	9	6	7		28
Salaried employees	14	3	13	21	7	58
Wage earners—						
Average for season	81	25	12	160	50	328
Average for year	55	17	7	109	30	218
Paid to salaried employees	$19, 136	$3, 625	$18, 760	$62, 351	$15, 600	$119, 472
Paid to wage earners	58, 052	26, 918	8, 000	124, 476	35, 410	252, 856
Total, salaries and wages	77, 188	30, 543	26, 760	186, 827	51, 010	372, 328

PRODUCTS MANUFACTURED

Item	Quantity	Value
Marine-shell novelties	(1)	$49, 454
Oysters, fresh-shucked .... gallons	345, 310	873, 659
Miscellaneous [2]	(1)	368, 112
Total		1, 291, 225

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 401]

Scallops, bay, fresh-shucked .... gallons	8, 839	$37, 331

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[1] Data not available.

[2] Includes the value of oyster-shell products; fresh-shucked, hard and soft clams; and canned hard clam chowder.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 5 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 170 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

CONNECTICUT

Fisheries of Connecticut, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines	Gill nets		Lines	
	Mackerel	Menhaden		Anchor	Drift	Hand	Trawl
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	47	60				21	57
On boats and shore—							
Regular	4		16	4		67	13
Casual			83	5	62		
Total	51	60	99	9	62	88	70
Vessels:							
Steam—							
101 to 110 tons		1					
161 to 170 tons		1					
Total		2					
Net tonnage		268					
Motor—							
5 to 10 tons	2					2	
11 to 20 tons	2						
21 to 30 tons	1						1
41 to 50 tons	1					1	1
51 to 60 tons							1
61 to 70 tons	1						1
Total	7					3	4
Net tonnage	171					63	185
Boats:							
Motor	2		6	6	26	50	7
Other	2		29		10	3	
Accessory boats	14	2					41
Apparatus:							
Number	9	2	28	32	230	288	1,726
Length, yards	1,620	720	2,710				
Square yards				5,370	22,770		
Hooks, baits, or snoods						297	84,380

Item	Pound nets	Floating traps	Fyke nets	Otter trawls	Pots		
					Crab	Eel	Lobster
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				527		4	4
On boats and shore—							
Regular	12	5	7	98	4	31	180
Casual			6			1	
Total	12	5	13	625	4	36	184
Vessels:							
Steam—							
121 to 130 tons				2			
161 to 170 tons				3			
171 to 180 tons				1			
181 to 190 tons				1			
201 to 210 tons				11			
261 to 270 tons				1			
Total				19			
Net tonnage				3,675			
Motor—							
5 to 10 tons				27		1	2
11 to 20 tons				18			
21 to 30 tons				1			
31 to 40 tons				1			
Total				47		1	2
Net tonnage				514		10	12
Total vessels				66		1	2
Total net tonnage				4,189		10	12
Boats:							
Motor	8	4	1	57	2	5	160
Other	1		11			25	6
Apparatus:							
Number	11	8	107	132	160	808	16,505
Yards at mouth				3,274			

Fisheries of Connecticut, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Harpoons	Spears	Dredges, oyster	Tongs	Rakes	Forks	Hoes	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	45		304	2				952
On boats and shore—								
Regular	16	40	12	142	30	64	6	426
Casual								152
Total	61	40	316	144	30	64	6	1, 530
Vessels:								
Steam—								
11 to 20 tons			1					1
51 to 60 tons			1					1
61 to 70 tons			2					2
71 to 80 tons			1					1
91 to 100 tons			2					2
101 to 110 tons			1					2
111 to 120 tons			1					1
121 to 130 tons								2
131 to 140 tons			1					1
161 to 170 tons								4
171 to 180 tons								1
181 to 190 tons								1
201 to 210 tons								11
261 to 270 tons								1
311 to 320 tons			1					1
391 to 400 tons			1					1
Total			12					33
Net tonnage			1, 534					5, 477
Motor—								
5 to 10 tons	5		26	1				54
11 to 20 tons	3		10					28
21 to 30 tons	2		7					9
31 to 40 tons	1		4					5
41 to 50 tons			3					4
51 to 60 tons								1
61 to 70 tons								1
Total	11		50	1				102
Net tonnage	153		781	6				1, 490
Sail—								
5 to 10 tons			2					2
11 to 20 tons			1					1
Total			3					3
Net tonnage			25					25
Total vessels	11		65	1				138
Total net tonnage	153		2, 340	6				6, 992
Boats:								
Motor	8	2	8	8		8		237
Other		28		106	21	43	6	218
Accessory boats	11							62
Apparatus:								
Number	19	40	242	144	30	64	6	
Yards at mouth			241					

Fisheries of Connecticut, 1930—Continued

CATCH: BY GEAR

Species	Purse seines				Haul seines		Gill nets			
	Mackerel		Menhaden				Anchor		Drift	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	20,974	$2,933					700	$76		
Bonito	116	13								
Butterfish	2,000	200					200	20		
Carp					13,060	$1,356	3,500	420		
Croaker	10,780	434								
Mackerel	606,070	23,636								
Menhaden			1,569,800	$15,698						
Minnows					29,035	2,672				
Mummichog					7,134	713				
Scup	283,452	5,567								
Shad					21,722	3,523	2,250	446	29,970	$6,126
Smelt					7,900	1,823				
Squeteague or "sea trout," gray	23,754	659					1,500	275		
Striped bass							500	50		
Suckers					29,260	2,181				
Whiting	2,500	10								
Total	949,646	33,452	1,569,800	15,698	108,111	12,268	8,650	1,287	29,970	6,126

Species	Lines				Pound nets		Floating traps		Fyke nets	
	Hand		Trawl							
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives							1,000	$30		
Bluefish	221,066	$28,307			8,711	$1,339	200	15		
Butterfish					6,738	897	3,100	341		
Carp									1,435	$170
Cod			86,400	$2,592						
Dolphin			138	8						
Eels			22,250	2,269	7,458	1,119			4,150	790
Flounders					11,036	594	7,100	426		
Haddock			46,550	1,862						
Hake			11,807	283						
Halibut			7,755	1,132						
Mackerel					3,912	521				
Menhaden					3,000	30	860	34	2,000	100
Minnows									1,000	50
Pike or pickerel									275	41
Pollock	2,000	80								
Scup					2,000	130				
Sea bass	13,833	2,075	400	24	20	4				
Sea robin					500	3				
Skates			3,065	41	2,000	20				
Smelt							2,000	300		
Squeteague or "sea trout," gray	804	120			4,994	938	12,200	1,830		
Striped bass					138	35	1,000	100		
Suckers									39,760	3,082
Swordfish			1,619	244						
Tautog	128.324	9,573			3,021	178	4,200	336		
Tilefish			1,783,456	97,068						
Yellow perch									700	105
Squid					10,700	225				
Total	366,027	40,155	1,963,440	105,523	64,228	6,033	31,660	3,412	49,320	4,338

Fisheries of Connecticut, 1930—Continued

CATCH: BY GEAR—Continued

Species	Otter trawls		Pots					
			Crab		Eel		Lobster	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Butterfish	24, 141	$2, 315						
Cod	8, 828, 829	256, 577						
Cusk	65, 241	960						
Eels	4, 733	299			64, 884	$9, 651		
Flounders	11, 146, 070	363, 458						
Haddock	48, 026, 124	1, 670, 757						
Hake	1, 125, 895	24, 929						
Halibut	175, 155	32, 340						
Mackerel	5, 644	209						
Pollock	543, 366	12, 439						
Rosefish	3, 528	25						
Sea robin	40, 556	204						
Skates	278, 768	2, 291						
Swordfish	1, 875	225						
Tomcod					200	60		
Wolffish	36, 856	501						
Crabs, hard	1, 188	9	202, 340	$4, 017				
Lobsters	1, 201	313					733, 511	$229, 953
Total	70, 309, 170	2, 367, 851	202, 340	4, 047	65, 084	9, 711	733, 511	229, 953

Species	Harpoons		Spears		Dredges, oyster		Tongs	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels			35, 254	$3, 879				
Swordfish	220, 802	$35, 199						
Tuna or "horse mackerel"	5, 400	324						
Clams, hard, public							13, 940	$7, 020
Oysters:								
Market, public, spring							5, 135	1, 745
Market, public, fall							21, 741	3, 825
Market, private, spring					3, 032, 230	$423, 439		
Market, private, fall					2, 543, 110	386, 450	13, 495	3, 075
Seed, public, spring					301, 805	41, 405	203, 000	29, 000
Seed, public, fall					452, 886	50, 875	315, 700	37, 225
Seed, private, spring					3, 709, 741	556, 963		
Seed, private, fall					561, 176	77, 542		
Total	226, 202	35, 523	35, 254	3, 879	10, 600, 948	1, 536, 674	573, 011	81, 890

Species	Rakes		Forks		Hoes	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams:						
Hard, public	800	$400	1, 888	$764	800	$400
Soft, public	27, 150	5, 430	37, 905	6, 224	6, 675	1, 335
Oysters:						
Seed, public, spring	14, 000	2, 000				
Seed, public, fall	36, 820	4, 208				
Total	78, 770	12, 038	39, 793	6, 988	7, 475	1, 735

OPERATING UNITS: BY COUNTIES

Item	Fairfield	Hartford	Middlesex	New Haven	New London
	Number	*Number*	*Number*	*Number*	*Number*
Fishermen:					
On vessels	187			188	577
On boats and shore—					
Regular	126		50	69	181
Casual	15	57	61		19
Total	328	57	111	257	777

Fisheries of Connecticut, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Fairfield	Hartford	Middlesex	New Haven	New London
Vessels:	*Number*	*Number*	*Number*	*Number*	*Number*
Steam—					
11 to 20 tons	1				
51 to 60 tons	1				
61 to 70 tons	1			1	
71 to 80 tons	1				
91 to 100 tons	1			1	
101 to 110 tons				1	1
111 to 120 tons	1				
121 to 130 tons					2
131 to 140 tons	1				
161 to 170 tons					4
171 to 180 tons					1
181 to 190 tons					1
201 to 210 tons				1	10
261 to 270 tons				1	
311 to 320 tons				1	
391 to 400 tons				1	
Total	7			7	19
Net tonnage	556			1, 455	3, 466
Motor—					
5 to 10 tons	25			10	19
11 to 20 tons	5			7	16
21 to 30 tons	3			4	2
31 to 40 tons	2			2	1
41 to 50 tons	3				1
51 to 60 tons					1
61 to 70 tons					1
Total	38			23	41
Net tonnage	531			348	611
Sail—					
5 to 10 tons	2				
11 to 20 tons	1				
Total	3				
Net tonnage	25				
Total vessels	48			30	60
Total net tonnage	1, 112			1, 803	4, 077
Boats:					
Motor	29	4	44	41	119
Other	84	17	33	31	53
Accessory boats	1				61
Apparatus:					
Purse seines—					
Mackerel					9
Length, yards					1, 620
Menhaden					2
Length, yards					720
Haul seines	3	10	8	4	3
Length, yards	250	1, 200	850	180	230
Gill nets—					
Anchor			30		2
Square yards			2, 970		2, 400
Drift		6	180		44
Square yards		594	17, 820		4, 356
Lines—					
Hand	22		73	20	173
Hooks	30		74	20	173
Trawl					1, 726
Hooks					84, 380
Pound nets				1	10
Floating traps					8
Fyke nets		56	16	12	23
Otter trawls	11		11	19	91
Yards at mouth	230		220	410	2, 414
Pots—					
Crab					160
Eel	141		40	262	365
Lobster	2, 565		1, 485	3, 640	8, 815
Harpoons, swordfish	1		1		17
Spears	12			5	23
Dredges, oyster	185			57	
Yards at mouth	166			75	
Tongs	81		19	19	25
Rakes	18			12	
Forks	3		4	9	48
Hoes				6	

Fisheries of Connecticut, 1930—Continued

CATCH: BY COUNTIES

Species	Fairfield		Hartford		Middlesex		New Haven		New London	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives									1,000	$30
Bluefish	890	$178			40,841	$6,126	4,320	$880	205,600	25,486
Bonito									116	13
Butterfish							6,420	715	29,759	3,058
Carp			4,660	$466	12,000	1,320			1,335	160
Cod	5,000	350					381,125	11,363	8,529,104	247,456
Croaker									10,780	434
Cusk							4,011	123	61,230	837
Dolphin									138	8
Eels	27,100	3,055	2,100	315	6,500	1,160	25,229	3,822	77,800	9,715
Flounders	343,600	17,181			173,355	8,963	752,070	31,836	9,895,181	306,498
Haddock							4,660,167	155,981	43,412,507	1,516,638
Hake							79,581	2,696	1,058,121	22,516
Halibut							9,588	2,034	173,322	31,438
Mackerel							205	15	615,421	24,351
Menhaden							2,000	100	1,573,660	15,762
Minnows					25,000	2,000	3,750	665	1,285	57
Mummichog					2,134	213	5,000	500		
Pike or pickerel									275	41
Pollock					2,000	80	88,689	1,965	454,677	10,474
Rosefish							3,528	25		
Scup									285,452	5,697
Sea bass	13,333	2,000					520	79	400	24
Sea robin									41,056	207
Shad			19,590	3,188	28,141	5,600			6,211	1,307
Skates	15,804	210					58,430	794	209,599	1,342
Smelt	5,500	1,375							4,400	748
Squeteague or "sea trout," gray					804	120	300	60	42,148	3,642
Striped bass									1,638	185
Suckers			26,140	2,090	36,500	2,790			6,380	383
Swordfish	18,667	2,800			1,500	225	1,875	225	202,254	32,418
Tautog	17,084	1,492			17,540	1,161	6,621	529	94,300	6,905
Tilefish									1,783,456	97,068
Tomcod	200	60								
Tuna or "horse mackerel"									5,400	324
Whiting									2,500	10
Wolffish							5,356	78	31,500	423
Yellow perch									700	105
Crabs, hard									203,528	4,056
Lobsters	84,970	33,147			68,910	24,118	126,004	46,482	454,828	126,519
Squid									10,700	225
Clams:										
Hard, public	6,460	3,280					9,528	4,764	1,440	540
Soft, public	6,000	1,200			1,725	345	36,525	7,305	27,480	4,139
Oysters:										
Market, public, spring									5,135	1,745
Market, public, fall					17,243	2,925	4,498	900		
Market, private, spring	2,660,949	360,284					371,281	63,155		
Market, private, fall	1,702,427	245,027			2,249	450	851,929	144,048		
Seed, public, spring	508,305	70,905					10,500	1,500		
Seed, public, fall	792,806	90,508					12,600	1,800		
Seed, private, spring	2,278,283	308,977					1,431,458	247,986		
Seed, private, fall	279,076	33,567					282,100	43,975		
Total	8,766,454	1,175,602	52,490	6,059	436,442	57,536	9,235,208	776,400	69,521,816	2,502,984

Industries related to the fisheries of Connecticut, 1930

TRANSPORTING

Item	Fairfield County	New Haven County	Total
	Number	*Number*	*Number*
Persons engaged on vessels	45	27	72
Vessels:			
Steam—			
11 to 20 tons		1	1
61 to 70 tons	1	1	2
Total	1	2	3
Net tonnage	65	85	150
Motor—			
5 to 10 tons	5		5
11 to 20 tons	1	3	4
21 to 30 tons	1		1
31 to 40 tons		1	1
41 to 50 tons	1		1
111 to 120 tons	1		1
Total	9	4	13
Net tonnage	178	127	305
Total vessels	10	6	16
Total net tonnage	243	212	455

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Fairfield County	New London County	New Haven County	Tolland County	Total
Establishments:	7	9	11	6	33
Persons engaged:					
Proprietors	9	6	14	11	40
Salaried employees	7	30	10	6	53
Wage earners—					
Average for season	87	310	166	340	903
Average for year	54	291	75	274	694
Paid to salaried employees	$42, 908	$105, 636	$68, 926	$38, 121	$255, 591
Paid to wage earners	69, 697	363, 595	87, 649	273, 788	794, 729
Total salaries and wages	112, 605	469, 231	156, 575	311, 909	1, 050, 320

PRODUCTS MANUFACTURED

Item	Quantity	Value
Marine-shell buttons .... gross	1, 315, 173	$980, 651
Oysters, fresh-shucked .... gallons	226, 297	563, 674
Miscellaneous [1]	(2)	1, 172, 564
Total		2, 716, 889

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[1] Includes fresh haddock fillets; frozen cod, flounder, haddock, hake, halibut, pollock, and salmon fillets frozen whiting sticks; smoked haddock fillets; frozen scallops; menhaden products; oyster-shell products fish meal; and marine-shell novelties.

[2] Data not available.

NOTE.—Of the total number of persons employed on transporting craft, 3 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

VESSEL FISHERIES AT THE PRINCIPAL NEW ENGLAND PORTS[5]

ECONOMIC ASPECT

The landings of fishery products at the three principal New England ports (Boston and Gloucester, Mass., and Portland, Me.), by vessels of 5 net tons and over, during 1931, amounted to 263,684,584 pounds as landed, valued at $9,249,257. This is a decrease of 25 per cent in the quantity of the catch as compared with 1930, and a decrease of 28 per cent in the value of the catch. Of the total landings, 99 per cent consisted of fresh fish and 1 per cent of salted fish. The landings at Boston accounted for the largest amount landed at the three ports in 1931, accounting for 219,945,003 pounds, valued at $7,906,494, or 84 per cent of the total quantity. This is a decrease of 23 per cent in amount and 27 per cent in value as compared with 1930. Landings at Gloucester in 1931 amounted to 24,849,803 pounds, valued at $775,823, or 9 per cent of the total quantity. This is a decrease of 48 per cent in amount and 42 per cent in value as compared with the previous year. Landings at Portland amounted to 18,889,778 pounds, valued at $566,940, or 7 per cent of the total landings. This is an increase of 4 per cent in the quantity and less than one-half of 1 per cent in the value as compared with 1930.

Among the landings of fresh fish, haddock outranked other species in volume landed, the amount of all sizes in 1931 being 132,845,465 pounds, or 51 per cent of the total fresh fish. This is 30 per cent less than the amount landed in 1930.

Landings by fishing vessels at principal New England ports, 1931

BOSTON: By months

Species	January		February		March	
	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:						
Large	1, 739, 505	$62, 786	2, 144, 428	$96, 430	5, 481, 845	$133, 137
Market	1, 805, 664	49, 367	1, 339, 248	44, 478	1, 872, 055	46, 948
Scrod	41, 390	365	500	8	5, 200	90
Haddock, fresh:						
Large	9, 433, 050	442, 167	12, 381, 077	497, 861	14, 994, 510	544, 977
Scrod	279, 905	6, 901	425, 490	10, 658	415, 707	9, 319
Hake, fresh:						
Large	759, 955	23, 717	718, 920	25, 980	616, 200	23, 758
Small	1, 500	68			4, 220	118
Pollock, fresh	608, 815	10, 763	463, 025	15, 351	357, 220	11, 031
Cusk, fresh	582, 070	13, 191	439, 020	11, 707	544, 765	11, 892
Halibut, fresh	58, 333	12, 753	170, 545	30, 547	248, 503	47, 914
Flounders, fresh	934, 110	60, 980	861, 988	53, 976	903, 553	49, 948
Other, fresh	205, 593	5, 213	236, 234	6, 067	328, 362	8, 642
Total, fresh	16, 449, 890	688, 271	19, 180, 475	793, 063	25, 772, 140	887, 774
Landed in 1930: Fresh	20, 794, 385	1, 062, 808	23, 914, 328	943, 530	29, 136, 729	1, 279, 861

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[5] With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure," which gives in detail methods for collecting statistics, compilation practices and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

Landings by fishing vessels at principal New England ports, 1931—Continued

BOSTON: BY MONTHS—Continued

Species	April		May		June		July	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:								
Large	2, 587, 710	$58, 305	1, 630, 677	$47, 205	1, 805, 215	$60, 170	1, 804, 608	$55, 159
Market	1, 471, 670	24, 146	1, 555, 230	27, 559	2, 032, 237	44, 388	3, 126, 495	52, 624
Scrod	10, 700	113	----------	--------	----------	--------	8, 200	43
Cod, salted, large	----------	--------	8, 290	269	----------	--------	----------	--------
Haddock, fresh:								
Large	12, 892, 170	243, 846	9, 979, 125	226, 675	9, 058, 320	271, 685	7, 959, 060	222, , 832
Scrod	476, 825	4, 371	291, 690	2, 953	400, 250	4, 791	332, 790	3, 020
Hake, fresh, large	282, 190	6, 067	355, 905	6, 780	264, 430	4, 760	321, 280	4, 168
Pollock, fresh	228, 865	5, 114	303, 805	3, 490	276, 167	4, 785	221, 080	3, 835
Cusk, fresh	263, 393	4, 117	316, 375	4, 130	68, 673	1, 151	50, 750	682
Halibut, fresh	338, 592	55, 251	395, 042	48, 943	287, 106	39, 876	313, 963	36, 055
Mackerel, fresh	57, 300	9, 454	1, 920, 390	120, 101	3, 468, 495	147, 474	4, 362, 842	181, 711
Flounders, fresh	700, 800	23, 653	985, 685	21, 232	603, 240	19, 852	520, 680	20, 981
Swordfish, fresh	----------	--------	----------	--------	196, 575	61, 059	492, 542	134, 085
Other, fresh	296, 783	4, 059	294, 693	5, 394	215, 287	4, 491	136, 117	5, 243
Total, fresh	19, 606, 998	438, 496	18, 028, 617	514, 462	18, 675, 995	664, 482	19, 650, 407	720, 438
Total, salted	----------	--------	8, 290	269	----------	--------	----------	--------
Grand total	19, 606, 998	438, 496	18, 036, 907	514, 731	18, 675, 995	664, 482	19, 650, 407	720, 438
Landed in 1930:								
Fresh	27, 700, 507	782, 318	23, 578, 286	635, 507	24, 210, 764	932, 343	30, 404, 936	1, 055, 986
Salted	----------	--------	----------	--------	----------	--------	42, 700	1, 835
Total	27, 700, 507	782, 318	23, 578, 286	635, 507	24, 210, 764	932, 343	30, 447, 636	1, 057, 821

Species	August		September		October	
	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:						
Large	1, 309, 297	$53, 810	1, 481, 042	$61, 867	1, 709, 983	$68, 998
Market	3, 059, 870	61, 873	2, 808, 421	77, 700	2, 776, 355	84, 956
Scrod	1, 100	16	5, 570	65	48, 925	1, 086
Cod, salted, large	----------	--------	4, 400	171	----------	--------
Haddock, fresh:						
Large	6, 484, 560	263, 706	6, 918, 270	299, 075	6, 074, 825	314, 627
Scrod	637, 253	9, 654	1, 357, 685	26, 860	2, 258, 550	53, 013
Hake, fresh:						
Large	241, 220	3, 587	236, 135	4, 724	642, 605	13, 508
Small	----------	--------	2, 000	40	5, 900	97
Pollock, fresh	375, 060	5, 179	564, 455	6, 320	697, 485	7, 894
Cusk, fresh	102, 270	1, 375	181, 765	3, 055	208, 445	4, 522
Halibut, fresh	237, 198	26, 560	89, 528	13, 238	107, 260	16, 150
Mackerel, fresh	5, 535, 740	219, 814	3, 386, 825	137, 532	845, 790	52, 024
Mackerel, salted	----------	--------	3, 000	120	----------	--------
Flounders, fresh	432, 170	18, 733	680, 073	30, 842	998, 158	42, 416
Swordfish, fresh	514, 416	118, 402	307, 332	80, 952	15, 027	4, 976
Herring, fresh	5, 700	142	----------	--------	----------	--------
Other, fresh	118, 368	4, 634	65, 517	3, 255	109, 601	6, 049
Total, fresh	19, 054, 222	787, 485	18, 084, 618	745, 525	16, 498, 909	670, 316
Total, salted	----------	--------	7, 400	291	----------	--------
Grand total	19, 054, 222	787, 485	18, 092, 018	745, 816	16, 498, 909	670, 316
Landed in 1930:						
Fresh	24, 726, 124	938, 855	29, 723, 655	929, 812	20, 135, 688	937, 819
Salted	2, 000	80	----------	--------	----------	--------
Total	24, 728, 124	938, 935	29, 723, 655	929, 812	20, 135, 688	937, 819

NOTE.—The weights of fresh and salted fish given in these statistics represent the fish as landed from th vessels, and the values are those received by the fishermen. Large cod are classified as those weighin over 10 pounds; market cod, 2½ to 10 pounds; and scrod cod, 1 to 2½ pounds. Large haddock are thos weighing over 2½ pounds and scrod haddock, 1 to 2½ pounds. Large hake are those weighing over pounds and small hake, under 6 pounds. Only landings by vessels having a capacity of 5 net tons o greater are used in this tabulation.

Landings by fishing vessels at principal New England ports, 1931—Continued

BOSTON: BY MONTHS—Continued

Species	November		December		Total, 1931		1930	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:								
Large	1, 271, 234	$54, 485	967, 085	$41, 729	23, 932, 629	$794, 081	24, 068, 140	$993, 288
Market	2, 367, 975	63, 279	1, 515, 380	42, 741	25, 730, 600	620, 059	28, 211, 846	690, 620
Scrod	74, 130	1, 222	48, 630	874	244, 345	3, 882	119, 505	2, 776
Cod, salted, large					12, 690	440		
Haddock, fresh:								
Large	5, 474, 213	262, 073	4, 379, 165	230, 048	106, 028, 345	3, 819, 572	159, 276, 930	5, 838, 526
Scrod	3, 804, 210	66, 178	3, 578, 040	63, 892	14, 258, 395	261, 610	7, 821, 344	156, 169
Hake, fresh:								
Large	959, 845	14, 719	462, 230	11, 034	5, 860, 915	142, 802	12, 614, 249	336, 873
Small	3, 600	70	26, 200	751	43, 420	1, 144	81, 375	1, 534
Pollock, fresh	601, 580	5, 334	330, 430	4, 621	5, 027, 987	83, 717	4, 671, 009	106, 912
Cusk, fresh	296, 450	5, 101	393, 115	7, 367	3, 447, 091	68, 290	3, 411, 741	90, 134
Halibut, fresh	32, 815	7, 591	30, 941	6, 856	2, 309, 826	341, 734	2, 510, 353	432, 238
Mackerel, fresh	202, 752	13, 253	74, 918	8, 270	19, 855, 052	889, 633	23, 637, 679	870, 821
Mackerel, salted					3, 000	120	44, 700	1, 915
Flounders, fresh	1, 128, 105	38, 336	744, 925	39, 256	9, 493, 487	420, 205	13, 095, 404	596, 412
Swordfish, fresh	450	155			1, 526, 342	399, 629	3, 078, 274	666, 922
Herring, fresh					5, 700	142		
Other, fresh	98, 543	3, 841	60, 081	2, 546	2, 165, 179	59, 434	2, 614, 929	85, 446
Total, fresh	16, 315, 902	535, 637	12, 611, 140	459, 985	219, 929, 313	7, 905, 934	285, 212, 778	10, 868, 671
Total, salted					15, 690	560	44, 700	1, 915
Grand total	16, 315, 902	535, 637	12, 611, 140	459, 985	219, 945, 003	7, 906, 494	285, 257, 478	10, 870, 586
Landed in 1930:								
Fresh	16, 151, 607	662, 030	14, 735, 769	707, 802			285, 212, 778	10, 868, 671
Salted							44, 700	1, 915
Total	16, 151, 607	662, 030	14, 735, 769	707, 802			285, 257, 478	10, 870, 586

GLOUCESTER: BY MONTHS

Species	January		February		March		April	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:								
Large	154, 356	$8, 197	119, 875	$7, 585	929, 775	$22, 732	771, 155	$17, 743
Market	15, 840	431	9, 790	317	37, 875	514	128, 400	1, 884
Scrod	3, 855	42	1, 955	28	140	2		
Cod, salted:								
Large							110, 610	4, 225
Market							6, 479	191
Haddock, fresh:								
Large	164, 030	8, 990	278, 495	12, 972	353, 505	13, 801	2, 222, 845	47, 952
Scrod	3, 695	78	7, 760	131	5, 760	107	19, 200	312
Hake, fresh, large	71, 395	1, 838	52, 910	1, 729	15, 008	358	11, 640	135
Hake, salted, large							275	4
Pollock, fresh	329, 905	6, 305	21, 055	800	4, 275	58	15, 740	124
Pollock, salted							117	2
Cusk, fresh	1, 230	23	445	9	625	13	30, 545	356
Halibut, fresh	35	4			18	3	4, 695	704
Flounders, fresh	99, 285	4, 545	76, 510	3, 803	74, 920	3, 796	47, 040	2, 396
Herring, salted	1, 441, 368	51, 915						
Other, fresh	24, 292	189	18, 135	130	9, 870	102	8, 055	54
Total, fresh	867, 918	30, 642	586, 930	27, 504	1, 431, 771	41, 486	3, 259, 315	71, 660
Total, salted	1, 441, 368	51, 915					117, 481	4, 422
Grand total	2, 309, 286	82, 557	586, 930	27, 504	1, 431, 771	41, 486	3, 376, 796	76, 082
Landed in 1930:								
Fresh	2, 210, 932	93, 240	1, 774, 509	61, 639	1, 328, 629	61, 035	3, 466, 894	100, 172
Salted	1, 563, 576	58, 794					69, 015	3, 420
Total	3, 774, 508	152, 034	1, 774, 509	61, 639	1, 328, 629	61, 035	3, 535, 909	103, 592

Landings by fishing vessels at principal New England ports, 1931—Continued

GLOUCESTER: By months—Continued

Species	May		June		July	
	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:						
Large	908, 545	$26, 020	359, 095	$10, 902	444, 830	$12, 122
Market	222, 546	2, 945	73, 290	1, 116	216, 635	3, 223
Scrod	100	1	175	2	400	3
Cod, salted:						
Large	246, 590	8, 627	118, 455	4, 110	107, 650	3, 722
Market	15, 140	379	17, 520	396	11, 285	266
Haddock, fresh:						
Large	650, 720	14, 016	224, 335	6, 569	430, 420	9, 222
Scrod	2, 450	20	6, 100	50	27, 545	195
Haddock, salted, large	675	10	----	----	----	----
Hake, fresh, large	12, 255	116	43, 625	711	48, 780	452
Hake, salted, large	245	5	----	----	1, 145	17
Pollock, fresh	101, 390	1, 061	51, 560	1, 142	8, 860	62
Pollock, salted	520	12	100	2	320	6
Cusk, fresh	9, 305	97	19, 450	224	26, 095	294
Cusk, salted	190	4	1, 615	31	2, 180	42
Halibut, fresh	----	----	2, 375	351	47, 789	4, 517
Halibut, salted	----	----	----	----	145	20
Mackerel, fresh	240, 145	8, 086	296, 965	11, 562	548, 090	20, 125
Mackerel, salted	----	----	10, 470	524	----	----
Flounders, fresh	1, 595	78	27, 750	807	38, 140	1, 312
Swordfish, fresh	----	----	1, 980	687	4, 593	1, 210
Other, fresh	445	9	2, 450	40	2, 685	80
Total, fresh	2, 149, 496	52, 449	1, 109, 150	34, 163	1, 844, 862	52, 817
Total, salted	263, 360	9, 037	148, 160	5, 063	122, 725	4, 073
Grand total	2, 412, 856	61, 486	1, 257, 310	39, 226	1, 967, 587	56, 890
Landed in 1930:						
Fresh	4, 892, 302	111, 667	2, 670, 552	77, 462	7, 728, 185	153, 481
Salted	279, 715	13, 380	178, 142	8, 677	175, 055	8, 358
Total	5, 172, 017	125, 047	2, 848, 694	86, 139	7, 903, 240	161, 839

Species	August		September		October		November	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:								
Large	87, 295	$1, 912	258, 473	$10, 292	397, 025	$21, 774	120, 633	$5, 403
Market	86, 560	1, 320	44, 220	872	12, 735	331	46, 971	1, 202
Scrod	175	2	----	----	2, 485	48	990	29
Cod, salted:								
Large	346, 077	12, 097	61, 530	2, 153	37, 920	1, 328	----	----
Market	147, 853	3, 697	2, 175	55	1, 080	31	----	----
Scrod	5, 645	85	----	----	----	----	----	----
Haddock, fresh:								
Large	252, 630	9, 393	215, 120	8, 064	23, 660	1, 289	12, 808	783
Scrod	37, 780	362	89, 885	1, 124	2, 330	52	20	1
Haddock, salted, large	135	2	----	----	----	----	----	----
Hake, fresh								
Large	21, 000	179	99, 880	1, 983	97, 462	1, 890	95, 940	1, 492
Small	----	----	----	----	----	----	1, 130	12
Hake, salted, large	1, 200	12	----	----	2, 235	28	----	----
Pollock, fresh	9, 575	63	56, 430	719	288, 407	3, 336	461, 951	4, 590
Pollock, salted	105	1	100	1	----	----	----	----
Cusk, fresh	27, 910	325	13, 325	161	5, 525	80	5, 525	79
Cusk, salted	765	15	----	----	55	1	----	----
Halibut, fresh	----	----	----	----	450	36	70	11
Halibut, salted	----	----	----	----	100	10	----	----
Mackerel, fresh	2, 886, 995	85, 842	1, 981, 742	67, 089	318, 899	18, 434	863, 627	45, 025
Mackerel, salted	36, 159	1, 447	5, 700	239	----	----	----	----
Flounders, fresh	39, 560	1, 512	12, 645	624	11, 850	469	5, 435	200
Swordfish, fresh	----	----	4, 047	793	----	----	----	----
Herring, fresh	----	----	----	----	79, 700	684	----	----
Other, fresh	2, 790	111	220, 500	2, 559	33, 727	1, 215	122, 736	5, 278
Total, fresh	3, 452, 270	101, 021	2, 996, 267	94, 280	1, 274, 255	49, 638	1, 737, 836	64, 105
Total, salted	537, 939	17, 356	69, 505	2, 448	41, 390	1, 398	----	----
Grand total	3, 990, 209	118, 377	3, 065, 772	96, 728	1, 315, 645	51, 036	1, 737, 836	64, 105
Landed in 1930:								
Fresh	3, 414, 305	87, 790	6, 099, 035	145, 377	2, 326, 872	83, 902	6, 222, 155	155, 392
Salted	307, 693	14, 832	779, 080	42, 792	344, 683	17, 839	----	----
Total	3, 721, 998	102, 622	6, 878, 115	188, 169	2, 671, 555	101, 741	6, 222, 155	155, 392

Landings by fishing vessels at principal New England ports, 1931—Continued

GLOUCESTER: BY MONTHS—Continued

Species	December		Total, 1931		1930	
	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:						
Large	119,855	$6,829	4,670,912	$151,511	7,145,692	$270,927
Market	2,395	60	897,257	14,215	2,262,190	46,763
Scrod	165	2	10,440	159	21,370	227
Cod, salted:						
Large	----------	----------	1,028,832	36,262	1,335,845	71,853
Market	----------	----------	201,532	5,015	534,122	26,350
Scrod	----------	----------	5,645	85	201,454	8,704
Haddock, fresh:						
Large	18,655	1,042	4,847,223	134,093	12,782,802	363,290
Scrod	5,225	53	207,750	2,485	673,713	9,321
Haddock, salted, large	----------	----------	810	12	----------	----------
Hake, fresh:						
Large	26,480	597	596,375	11,480	1,613,113	29,252
Small	----------	----------	1,130	12	17,185	376
Hake, salted, large	----------	----------	5,100	66	4,230	79
Pollock, fresh	47,955	1,053	1,397,103	19,313	8,376,338	141,650
Pollock, salted	----------	----------	1,262	24	3,155	71
Cusk, fresh	1,010	13	140,990	1,674	375,015	5,937
Cusk, salted	----------	----------	4,805	93	18,052	438
Halibut, fresh	37	6	55,469	5,632	22,505	3,169
Halibut, salted	----------	----------	245	30	2,995	532
Mackerel, fresh	161,910	17,314	7,298,373	273,477	9,068,868	255,557
Mackerel, salted	----------	----------	52,329	2,210	33,530	1,271
Flounders, fresh	33,945	1,657	468,675	21,199	1,011,189	47,586
Swordfish, fresh	----------	----------	10,620	2,690	2,773	673
Herring, fresh	125,000	3,000	204,700	3,684	77,400	774
Herring, salted	845,508	28,674	2,286,876	80,589	1,563,576	58,794
Other, fresh	9,665	46	455,350	9,813	212,355	4,493
Total, fresh	552,297	31,672	21,262,367	651,437	43,662,508	1,179,995
Total, salted	845,508	28,674	3,587,436	124,386	3,696,959	168,092
Grand total	1,397,805	60,346	24,849,803	775,823	47,359,467	1,348,087
Landed in 1930:						
Fresh	1,528,138	48,838	----------	----------	43,662,508	1,179,995
Salted	----------	----------	----------	----------	3,696,959	168,092
Total	1,528,138	48,838	----------	----------	47,359,467	1,348,087

PORTLAND: BY MONTHS

Species	January		February		March		April	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:								
Large	106,656	$4,485	80,672	$3,735	493,045	$15,814	1,132,605	$29,013
Market	50,156	1,242	37,211	1,169	78,022	1,811	83,380	1,495
Scrod	4,420	44	2,535	26	2,058	20	980	8
Haddock, fresh:								
Large	311,374	17,257	263,177	12,596	973,882	26,120	4,569,238	105,417
Scrod	10,782	109	8,240	83	13,012	128	2,840	28
Hake, fresh:								
Large	44,060	1,279	16,335	473	23,693	682	7,665	195
Small	101,352	2,762	59,745	1,895	41,667	1,089	35,725	704
Pollock, fresh	40,329	383	18,726	426	23,185	421	82,725	621
Cusk, fresh	92,081	2,213	77,347	2,187	119,255	2,630	109,670	1,725
Halibut, fresh	582	137	361	86	4,366	865	24,120	3,551
Flounders, fresh	27,792	857	30,190	1,390	33,778	908	49,362	775
Other, fresh	43,569	1,015	39,301	1,007	49,054	1,082	48,191	666
Total, fresh	833,153	31,783	633,840	25,073	1,855,017	51,570	6,146,501	144,198
Landed in 1930: Fresh	574,142	26,072	1,456,416	53,711	834,017	30,561	2,786,216	67,446

Landings by fishing vessels at principal New England ports, 1931—Continued

PORTLAND: BY MONTHS—Continued

Species	May		June		July	
	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:						
Large	157, 561	$4, 897	187, 154	$8, 621	264, 914	$11, 799
Market	73, 457	1, 202	16, 245	323	26, 054	552
Scrod	1, 825	16	1, 251	13	1, 030	9
Cod, salted:						
Large	-----	-----	4, 450	156	4, 275	146
Market	-----	-----	2, 340	59	-----	-----
Scrod	-----	-----	115	2	-----	-----
Haddock, fresh:						
Large	376, 912	7, 536	96, 472	4, 391	142, 704	5, 891
Scrod	2, 092	21	2, 678	24	7, 880	80
Hake, fresh:						
Large	9, 970	155	15, 035	156	6, 832	103
Small	41, 395	550	45, 222	496	51, 572	682
Pollock, fresh	45, 805	459	45, 255	428	100, 466	987
Cusk, fresh	81, 305	1, 378	6, 977	106	9, 683	117
Halibut, fresh	9, 466	1, 420	32, 764	3, 856	51, 623	6, 708
Mackerel, fresh	12, 925	777	84, 105	3, 283	88, 296	3, 783
Flounders, fresh	18, 452	611	5, 775	168	28, 502	998
Swordfish, fresh	-----	-----	16, 388	4, 830	90, 022	25, 061
Herring, fresh	-----	-----	108, 530	1, 086	400	4
Other, fresh	31, 410	673	17, 751	339	42, 466	917
Total, fresh	862, 575	19, 695	681, 602	28, 120	912, 444	57, 691
Total, salted	-----	-----	6, 905	217	4, 275	146
Grand total	862, 575	19, 695	688, 507	28, 337	916, 719	57, 837
Landed in 1930:						
Fresh	2, 616, 242	63, 429	1, 445, 677	44, 159	2, 626, 869	90, 496
Salted	13, 105	556	-----	-----	665	13
Total	2, 629, 347	63, 985	1, 445, 677	44, 159	2, 627, 534	90, 509

Species	August		September		October		November	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:								
Large	246, 639	$11, 558	221, 126	$10, 674	262, 588	$11, 767	99, 001	$4, 545
Market	13, 269	265	11, 716	247	45, 565	912	41, 930	911
Scrod	1, 260	11	1, 480	13	4, 430	36	6, 900	67
Cod, salted:								
Large	9, 130	319	23, 725	889	55	2	-----	-----
Market	1, 010	27	2, 700	68	20	1	-----	-----
Haddock, fresh:								
Large	151, 480	7, 018	110, 959	5, 789	175, 322	9, 019	161, 996	8, 955
Scrod	7, 235	69	4, 342	44	8, 485	76	3, 136	42
Hake, fresh:								
Large	6, 210	79	16, 282	261	67, 550	958	59, 961	832
Small	53, 623	567	49, 315	815	194, 281	2, 795	161, 568	1, 928
Hake, salted, small	155	1	-----	-----	-----	-----	-----	-----
Pollock, fresh	80, 037	790	109, 938	1, 054	294, 173	3, 058	188, 463	949
Pollock, salted	-----	-----	-----	-----	10	-----	-----	-----
Cusk, fresh	2, 917	49	10, 200	185	72, 745	1, 147	57, 527	786
Cusk, salted	-----	-----	200	3	-----	-----	-----	-----
Halibut, fresh	58, 126	8, 665	19, 680	2, 622	2, 033	269	825	149
Mackerel, fresh	1, 420, 697	37, 146	672, 095	13, 516	12, 631	867	11, 847	649
Mackerel, salted	9, 555	113	-----	-----	-----	-----	-----	-----
Flounders, fresh	38, 080	1, 006	31, 848	1, 028	37, 877	1, 204	3, 945	163
Swordfish, fresh	90, 531	20, 741	26, 426	5, 794	-----	-----	-----	-----
Herring, fresh	47, 600	494	193, 100	1, 272	295, 200	1, 724	22, 600	90
Other, fresh	185, 383	3, 135	23, 029	403	70, 363	1, 334	42, 620	836
Total, fresh	2, 403, 087	91, 593	1, 501, 536	43, 717	1, 543, 243	35, 166	862, 319	20, 902
Total, salted	19, 850	460	26, 625	960	85	3	-----	-----
Grand total	2, 422, 937	92, 053	1, 528, 161	44, 677	1, 543, 328	35, 169	862, 319	20, 902
Landed in 1930:								
Fresh	1, 431, 689	49, 859	1, 172, 065	37, 521	1, 402, 070	43, 499	1, 108, 052	30, 407
Salted	4, 900	196	-----	-----	-----	-----	-----	-----
Total	1, 436, 589	50, 055	1, 172, 065	37, 521	1, 402, 070	43, 499	1, 108, 052	30, 407

Landings by fishing vessels at principal New England ports, 1931—Continued

PORTLAND: BY MONTHS—Continued

Species	December		Total, 1931		1930	
	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:						
Large	62, 800	$2, 717	3, 314, 761	$119, 625	1, 987, 921	$78, 428
Market	37, 111	940	514, 116	11, 069	660, 505	16, 864
Scrod	5, 195	51	33, 364	314	51, 642	540
Cod, salted:						
Large	----------	----------	41, 635	1, 512	15, 340	718
Market	----------	----------	6, 070	155	260	10
Scrod	----------	----------	115	2	----------	----------
Haddock, fresh:						
Large	96, 025	5, 859	7, 429, 541	215, 848	8, 589, 386	274, 188
Scrod	2, 679	45	73, 401	749	227, 158	4, 292
Hake, fresh:						
Large	36, 730	820	310, 323	5, 993	168, 328	3, 468
Small	103, 099	2, 201	938, 564	16, 484	1, 119, 273	23, 279
Hake, salted, small	----------	----------	155	1	----------	----------
Pollock, fresh	176, 138	1, 108	1, 205, 240	10, 684	929, 624	15, 178
Pollock, salted	----------	----------	10	----------	70	1
Cusk, fresh	31, 814	625	671, 521	13, 148	628, 607	16, 722
Cusk, salted	----------	----------	200	3	----------	----------
Halibut, fresh	750	142	204, 696	28, 470	43, 340	6, 990
Halibut, salted	----------	----------	----------	----------	2, 335	23
Mackerel, fresh	2, 825	99	2, 305, 421	60, 120	727, 176	28, 030
Mackerel, salted	----------	----------	9, 555	113	665	13
Flounders, fresh	7, 581	353	313, 182	9, 461	300, 144	7, 412
Swordfish, fresh	----------	----------	223, 367	56, 426	299, 987	58, 354
Herring, fresh	----------	----------	667, 430	4, 670	1, 081, 750	10, 657
Other, fresh	33, 974	686	627, 111	12, 093	1, 351, 014	21, 612
Total, fresh	596, 721	15, 646	18, 832, 038	565, 154	18, 165, 855	566, 014
Total, salted	----------	----------	57, 740	1, 786	18, 670	765
Grand total	596, 721	15, 646	18, 889, 778	566, 940	18, 184, 525	566, 779
Landed in 1930:						
Fresh	712, 400	28, 854	----------	----------	18, 165, 855	566, 014
Salted	----------	----------	----------	----------	18, 670	765
Total	712, 400	28, 854	----------	----------	18, 184, 525	566, 779

SUMMARY: BY PORTS

Species	Boston		Gloucester		Portland	
	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:						
Large	23, 932, 629	$794, 081	4, 670, 912	$151, 511	3, 314, 761	$119, 625
Market	25, 730, 600	620, 059	897, 257	14, 215	514, 116	11, 069
Scrod	244, 345	3, 882	10, 440	159	33, 364	314
Cod, salted:						
Large	12, 690	440	1, 028, 832	36, 262	41, 635	1, 512
Market	----------	----------	201, 532	5, 015	6, 070	155
Scrod	----------	----------	5, 645	85	115	2
Haddock, fresh:						
Large	106, 028, 345	3, 819, 572	4, 847, 223	134, 093	7, 429, 541	215, 848
Scrod	14, 258, 395	261, 610	207, 750	2, 485	73, 401	749
Haddock, salted, large	----------	----------	810	12	----------	----------
Hake, fresh:						
Large	5, 860, 915	142, 802	596, 375	11, 480	310, 323	5, 993
Small	43, 420	1, 144	1, 130	12	938, 564	16, 484
Hake, salted:						
Large	----------	----------	5, 100	66	----------	----------
Small	----------	----------	----------	----------	155	1
Pollock, fresh	5, 027, 987	83, 717	1, 397, 103	19, 313	1, 205, 240	10, 684
Pollock, salted	----------	----------	1, 262	24	10	----------
Cusk, fresh	3, 447, 091	68, 290	140, 990	1, 674	671, 521	13, 148
Cusk, salted	----------	----------	4, 805	93	200	3
Halibut, fresh	2, 309, 826	341, 734	55, 469	5, 632	204, 696	28, 470
Halibut, salted	----------	----------	245	30	----------	----------
Mackerel, fresh	19, 855, 052	889, 633	7, 298, 373	273, 477	2, 305, 421	60, 120
Mackerel, salted	3, 000	120	52, 329	2, 210	9, 555	113

Landings by fishing vessels at principal New England ports, 1931—Continued

SUMMARY: By ports—Continued

Species	Boston		Gloucester		Portland	
	Pounds	Value	Pounds	Value	Pounds	Value
Flounders, fresh	9, 493, 487	$420, 205	468, 675	$21, 199	313, 182	$9, 461
Swordfish, fresh	1, 526, 342	399, 629	10, 620	2, 690	223, 367	56, 426
Herring, fresh	5, 700	142	204, 700	3, 684	667, 430	4, 670
Herring, salted			2, 286, 876	80, 589		
Other, fresh	2, 165, 179	59, 434	455, 350	9, 813	627, 111	12, 093
Total, fresh	219, 929, 313	7, 905, 934	21, 262, 367	651, 437	18, 832, 038	565, 154
Total, salted	15, 690	560	3, 587, 436	124, 386	57, 740	1, 786
Grand total	219, 945, 003	7, 906, 494	24, 849, 803	775, 823	18, 889, 778	566, 940
Landed in 1930:						
Fresh	285, 212, 778	10, 868, 671	43, 662, 508	1, 179, 995	18, 165, 855	566, 014
Salted	44, 700	1, 915	3, 696, 959	168, 092	18, 670	765
Total	285, 257, 478	10, 870, 586	47, 359, 467	1, 348, 087	18, 184, 525	566, 779

Species	Total, 1931		1930	
	Pounds	Value	Pounds	Value
Cod, fresh:				
Large	31, 918, 302	$1, 065, 217	33, 201, 753	$1, 342, 643
Market	27, 141, 973	645, 343	31, 134, 541	754, 247
Scrod	288, 149	4, 355	192, 517	3, 543
Cod, salted:				
Large	1, 083, 157	38, 214	1, 351, 185	72, 571
Market	207, 602	5, 170	534, 382	26, 360
Scrod	5, 760	87	201, 454	8, 704
Haddock, fresh:				
Large	118, 305, 109	4, 169, 513	180, 649, 118	6, 476, 004
Scrod	14, 539, 546	264, 844	8, 722, 215	169, 782
Haddock, salted, large	810	12		
Hake, fresh:				
Large	6, 767, 613	160, 275	14, 395, 690	369, 593
Small	983, 114	17, 640	1, 217, 833	25, 189
Hake, salted:				
Large	5, 100	66	4, 230	79
Small	155	1		
Pollock, fresh	7, 630, 330	113, 714	13, 976, 971	263, 740
Pollock, salted	1, 272	24	3, 225	72
Cusk, fresh	4, 259, 602	83, 112	4, 415, 363	112, 793
Cusk, salted	5, 005	96	18, 052	438
Halibut, fresh	2, 569, 991	375, 836	2, 576, 198	442, 397
Halibut, salted	245	30	5, 330	555
Mackerel, fresh	29, 458, 846	1, 223, 230	33, 433, 723	1, 154, 408
Mackerel, salted	64, 884	2, 443	78, 895	3, 199
Flounders, fresh	10, 275, 344	450, 865	14, 406, 737	651, 410
Swordfish, fresh	1, 760, 329	458, 745	3, 381, 034	725, 949
Herring, fresh	877, 830	8, 496	1, 159, 150	11, 431
Herring, salted	2, 286, 876	80, 589	1, 563, 576	58, 794
Other, fresh	[1] 3, 247, 640	81, 340	4, 178, 298	111, 551
Total, fresh	260, 023, 718	9, 122, 525	347, 041, 141	12, 614, 680
Total, salted	3, 660, 866	126, 732	3, 760, 329	170, 772
Grand total	263, 684, 584	9, 249, 257	350, 801, 470	12, 785, 452
Landed in 1930:				
Fresh			347, 041, 141	12, 614, 680
Salted			3, 760, 329	170, 772
Total			350, 801, 470	12, 785, 452

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[1] The items under "Other" include alewives, 351,800 pounds, value $4,240; butterfish, 122,571 pounds, value $9,482; eels, 10,565 pounds, value $159; cunner ("perch"), 675 pounds, value $18; rosefish, 120,287 pounds, value $1,152; salmon, 54 pounds, value $14; sea robins, 250 pounds, value $5; scup, 780 pounds, value $78; shad, 193,095 pounds, value $7,388; sharks, 57,628 pounds, value $909; skates, 41,040 pounds, value $307; smelt, 680 pounds, value $34; sturgeon, 4,054 pounds, value $406; tuna, 247 pounds, value $25; whiting, 69,598 pounds, value $2,066; wolffish, 1,773,935 pounds, value $40,669; lobsters, 192 pounds, value $50; scallops, 369 pounds, value $56; spearfish, 500 pounds, value $10; goosefish, 150 pounds, value $2; sea bass, 2,200 pounds, value $110; livers, 403,077 pounds, value $8,402; spawn, 92,544 pounds, value $5,623; and tongues, 1,349 pounds, value $135.

BIOLOGICAL ASPECT

In 1931, the fishing fleet landing fares at Boston and Gloucester, Mass., and Portland, Me., and operating on the fishing banks of the North Atlantic from Flemish Cap to New York, numbered 427 steam, motor, and sail vessels, of over 5 net tons, as measured by the United States Customs Service. These made 11,543 trips to the fishing grounds, and were absent from port 54,932 days, or an average of about 4.8 days per trip. This is 0.1 of a day less than the average length of a trip during 1930. Their catches of edible fish landed at the three ports amounted to 266,037,858 pounds when the salted fish had been converted to the basis of fresh gutted or round fish as landed. This does not represent the entire catch of edible fish of these vessels, for small quantities, estimated at not more than 5 per cent of their total catch, were landed at ports in New England other than these three, at New York City, and at ports in New Jersey.

Otter trawls on all sizes of vessels accounted for 153,566,035 pounds, or 58 per cent of the total catch. Line trawls were next in importance, accounting for 62,619,353 pounds, or 24 per cent of the total catch landed at the three ports in 1931.

The catch taken on Georges Bank was considerably larger than that taken on any other fishing ground and landed at the three ports in 1931. It amounted to 100,142,605 pounds, or 38 per cent of the total catch. It was taken mainly by otter trawls. The grounds near the shore, Browns Bank, and South Channel were next in importance, each accounting for about 15 per cent of the total catch. The catch on the grounds near the shore was taken mainly in purse seines; that on Browns Bank, mainly by line trawls; and that on South Channel, largely by otter trawls.

Landings by fishing vessels at the three principal New England ports, 1931

BY GEAR AND FISHING GROUNDS

Gear and fishing ground	Vessels fishing	Trips	Days absent	Cod			Haddock		Hake	
				Large	Market	Scrod	Large	Scrod	Large	Small
Line trawls:	*Number*	*Number*	*Number*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Off Funks	1	1	5							
Grand Bank	5	8	183	4, 412	246				5, 239	
Green Bank	3	3	70	4, 617	1, 377					307
St. Peters Bank	3	5	113	1, 540	780					1, 470
Off Newfoundland	2	2	36							
Seal Island grounds	2	2	11	3, 020	2, 945	270	10, 420	375		10, 625
Gulf of St. Lawrence	2	2	70	575, 951	274, 671	11, 088			2, 280	
Scatari Bank	1	1	35	7, 154	2, 716					
Quereau Bank	10	14	308	73, 651	13, 302	228	1, 390		5, 276	
The Gully	3	4	79	8, 600	12, 985		40, 000			
Sable Island Bank (Western Bank)	13	18	199	557, 040	363, 740		720, 305		5, 855	
Cape Shore	36	87	944	540, 100	1, 115, 765	715	1, 816, 290	1, 005	282, 720	10, 040
Emerald Bank	1	1	8	24, 000	18, 980		38, 800			
La Have Bank	33	64	622	618, 137	859, 512	800	1, 799, 135	22, 250	82, 835	565
Roseway Bank	4	5	41	49, 210	99, 300		131, 050		10, 500	
Browns Bank	52	369	3, 696	3, 900, 442	3, 734, 621	1, 020	11, 712, 350	15, 240	645, 095	16, 820
Georges Bank	43	152	1, 771	3, 358, 937	1, 127, 438	265	2, 379, 770	45, 150	138, 474	
South Channel	38	324	2, 089	1, 871, 467	2, 943, 485	1, 780	6, 844, 420	33, 560	866, 760	4, 010
Off Highland Light	2	2	10	5, 400	6, 600		42, 900		3, 100	
Off Chatham	4	5	28	15, 265	15, 800	400	85, 500		22, 080	
Nantucket Shoals	4	12	107	26, 105	12, 025		28, 905		1, 800	
Cashes Bank	16	31	125	73, 540	40, 050	2, 475	129, 125	2, 103	127, 765	56, 630
Fippenies Bank	6	6	28	15, 580	8, 860		24, 815		28, 800	4, 395
Platts Bank	4	6	15	9, 935	4, 122	125	18, 210	540	8, 240	9, 825
Jeffreys Ledge	27	294	635	201, 914	97, 253	11, 316	881, 059	34, 910	262, 081	287, 006
Tillies Bank	1	1	8	190			3, 100	200	3, 200	
Middle Bank (Stellwagen Bank)	7	54	274	40, 575	20, 928	800	424, 735	13, 065	206, 580	4, 000
Shore, general	51	329	917	344, 425	230, 874	20, 993	817, 036	32, 961	169, 368	263, 868
Total	[1] 105	1, 802	12, 427	12, 331, 207	11, 008, 375	52, 275	27, 949, 315	201, 359	2, 878, 048	669, 561
Hand lines:										
Cape Shore	5	16	136	170, 730	358, 150		14, 185		400	
Browns Bank	6	19	184	238, 945	338, 880		36, 540		1, 050	
Georges Bank	6	30	277	622, 260	399, 860		18, 590			
South Channel	3	3	20	23, 670	15, 770		4, 900			
Off Chatham	1	1	6		1, 135		75			
Off Chatham (occasional)					776	89	278			
Nantucket Shoals	7	24	160	81, 615	157, 920		1, 620	290	10, 300	

Shore, general	4	4	27	8, 175	13, 190	160	1, 335		2, 200	
Shore, general (occasional)				908	1, 610	95	40			
Total	[1] 17	97	810	1, 146, 303	1, 287, 291	344	77, 563	290	13, 950	
Harpoons:										
Gulf of St. Lawrence	1	1	5							
Gurdo Bank	1	1	26							
The Gully	1	1	20							
Cape Shore	4	4	79							
Browns Bank	52	67	1, 224							
Georges Bank	74	191	3, 512							
South Channel	1	1	7							
Off Chatham	2	2	16							
Nantucket Shoals	2	2	29							
Shore, general	8	8	127							
Total	[1] 79	278	5, 045							
Otter trawls, large:										
Gulf of St. Lawrence	1	1	15	4, 300	9, 400		40, 700	900	19, 400	
Sable Island Bank (Western Bank)	38	93	1, 067	1, 576, 640	1, 389, 363	35, 130	6, 465, 365	226, 080	72, 330	
La Have Bank	32	59	625	489, 075	680, 265	19, 775	2, 781, 660	171, 805	75, 945	
Browns Bank	42	105	1, 042	1, 338, 310	794, 835	5, 010	8, 101, 157	405, 640	209, 850	100
Georges Bank	65	797	7, 846	7, 568, 770	6, 970, 498	105, 975	29, 850, 301	7, 258, 955	1, 411, 945	15, 420
South Channel	44	204	1, 864	1, 067, 288	1, 115, 635	14, 420	7, 887, 885	1, 131, 368	646, 025	1, 500
Off Chatham	2	2	15	13, 325	29, 500		61, 440	2, 900	11, 375	
Nantucket Shoals	21	27	259	88, 310	143, 185	3, 160	1, 314, 010	344, 560	50, 680	
Shore, general	1	1	11	2, 000	2, 000		15, 000	38, 000		
Total	[1] 67	1, 289	12, 744	12, 148, 018	11, 134, 681	183, 470	56, 517, 518	9, 580, 208	2, 497, 550	17, 020
Otter trawls, medium:										
Sable Island Bank (Western Bank)	2	2	20	1, 800	7, 400		25, 100	3, 000	1, 125	
Cape Shore	2	2	17	2, 510	3, 500		50, 210	11, 500	1, 900	
La Have Bank	11	15	129	73, 730	79, 070	500	559, 000	51, 655	12, 200	
Browns Bank	35	73	622	425, 755	261, 140	7, 900	3, 172, 560	123, 935	20, 005	
Georges Bank	68	775	6, 404	3, 042, 608	2, 005, 420	39, 805	16, 488, 970	3, 050, 995	381, 875	3, 500
Clark Bank	1	1	8	1, 600	250		16, 500	100	1, 700	
South Channel	59	345	2, 759	485, 390	1, 055, 085	10, 105	6, 784, 597	1, 024, 170	322, 070	1, 000
Off Highland Light	1	1	4		1, 725		3, 200	5, 800	2, 400	
Off Chatham	9	25	159	44, 055	62, 890		329, 025	54, 180	23, 765	
Nantucket Shoals	34	64	504	28, 500	145, 800		1, 082, 410	158, 435	55, 850	
Cashes Bank	1	1	5	800	1, 900				3, 070	
Jeffreys Ledge	4	6	31	540	515		15, 895		760	
Middle Bank (Stellwagen Bank)	2	3	14	2, 075	125		10, 250	13, 500	1, 220	
South	1	1	3							
Shore, general	30	174	496	41, 489	47, 610	2, 625	380, 270	79, 572	58, 660	670
Total	[1] 91	1, 488	11, 175	4, 150, 852	3, 672, 430	60, 935	28, 917, 987	4, 576, 842	886, 600	5, 170

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[1] Exclusive of duplication.

Landings by fishing vessels at the three principal New England ports, 1931—Continued

BY GEAR AND FISHING GROUNDS—Continued

Gear and fishing ground	Vessels fishing	Trips	Days absent	Cod			Haddock		Hake	
				Large	Market	Scrod	Large	Scrod	Large	Small
	Number	*Number*	*Number*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Otter trawls, small:										
Cape Shore	1	1	7	50	200		100		800	
Browns Bank	1	1	7	2,700	3,400		33,500			
Georges Bank	6	49	383	96,445	68,845		642,760	123,025	10,500	
South Channel	3	9	73	3,840	25,525		112,800	22,770	915	
Nantucket Shoals	5	7	45	1,430	26,845		36,325	2,135	1,050	
Jeffreys Ledge	2	2	5	130	35		2,165	80		
Shore, general	59	442	1,115	69,213	49,294	1,605	633,208	31,899	87,098	38,145
Total	[1] 62	511	1,635	173,808	174,144	1,605	1,460,858	179,909	100,363	38,145
Sink gill nets:										
Jeffreys Ledge	5	56	57	56,651	5,120		14,793		4,710	19,422
Shore, general	35	3,613	3,669	3,969,460	262,683	925	3,368,743	938	396,081	234,103
Total	35	3,669	3,726	4,026,111	267,803	925	3,383,536	938	400,791	253,525
Drift gill nets:										
Bay of Islands	7	8	412							
Georges Bank	1	1	4							
Jeffreys Ledge	1	3	7							
South	12	14	44							
Shore, general	84	741	1,534							
Total	[1] 92	767	2,001							
Purse seines:										
Cape Shore	3	4	38							
Georges Bank	47	72	271							
South Channel	36	45	167							
Off Chatham	55	94	407							
Nantucket Shoals	22	25	75							
Middle Bank (Stellwagen Bank)	3	3	9							
South	54	91	315							
Shore, general	124	1,308	4,087							
Total	[1] 127	1,642	5,369							
Grand total	[1] 427	11,543	54,932	33,976,299	27,544,724	299,554	118,306,777	14,539,546	6,777,302	983,421

NOTE.—The 3 principal New England ports are Boston and Gloucester, Mass., and Portland, Me. Otter trawls (including V-D trawls) are classified according to the size of the vessel. The weight of salted fish landed has been converted to the equivalent of fresh fish as landed. Only landings by vessels having a capacity of 5 net tons or greater are used in this tabulation. "Occasional" after the name of a bank or ground indicates that the vessel or vessels contributing to the catch as shown fished chiefly with another type of gear. In such cases the number of vessels fishing, number of trips, and number of days absent are shown under the principal type of gear used.

Gear and fishing ground	Pollock	Cusk	Halibut	Flounders	Swordfish	Mackerel	Herring	Other	Total
Line trawls:	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Off Funks			32, 530						32, 530
Grand Bank		885	273, 825					2, 500	287, 107
Green Bank		40	65, 439						71, 780
St. Peters Bank		2, 975	214, 734						221, 499
Off Newfoundland			81, 573						81, 573
Seal Island grounds	672	6, 075	164					1, 850	36, 416
Gulf of St. Lawrence			44, 526						908, 516
Scatari Bank		1, 102	6, 117						17, 089
Quereau Bank	247	15, 360	215, 794		1, 325			2, 451	329, 024
The Gully	355	10, 125	48, 671						120, 736
Sable Island Bank (Western Bank)	14, 235	11, 525	44, 390		195			3, 040	1, 720, 325
Cape Shore	40, 365	371, 940	11, 172	350				46, 260	4, 236, 722
Emerald Bank	275	940	822						83, 817
La Have Bank	34, 800	148, 845	105, 682		203	320		19, 320	3, 692, 404
Roseway Bank	2, 100	18, 555	976					2, 375	314, 066
Browns Bank	264, 450	1, 954, 144	302, 816	4, 250	10, 862			147, 795	22, 709, 905
Georges Bank	91, 341	270, 156	585, 717	80	6, 295			16, 023	8, 019, 646
South Channel	347, 125	198, 055	26, 682	4, 825				54, 205	13, 196, 374
Off Highland Light	460	600							59, 060
Off Chatham	6, 350	2, 700	79					2, 390	150, 564
Nantucket Shoals	800	400	45, 559					262	115, 856
Cashes Bank	26, 015	210, 200	3, 707					16, 265	687, 875
Fippenies Bank	4, 230	18, 670	522					950	106, 822
Platts Bank	3, 680	7, 430	388					4, 325	66, 820
Jeffreys Ledge	58, 896	300, 076	3, 104	3, 635				110, 806	2, 252, 056
Tillies Bank	500	200							7, 390
Middle Bank (Stellwagen Bank)	13, 040	64, 520	806					6, 447	795, 496
Shore, general	63, 030	249, 261	7, 820	3, 356				94, 893	2, 297, 885
Total	972, 966	3, 864, 779	2, 123, 615	16, 496	[2] 18, 880	[2] 320		532, 157	62, 619, 353
Hand lines:									
Cape Shore	49, 455	14, 905	277					11, 595	619, 697
Browns Bank	33, 615	20, 843	3, 917					14, 320	688, 110
Georges Bank	64, 010	19, 665	8, 190					12, 720	1, 145, 295
South Channel	3, 140	800	64					1, 450	49, 794
Off Chatham									1, 210
Off Chatham (occasional)									1, 143
Nantucket Shoals	5, 840	760							258, 345
Shore, general	2, 000	1, 000						275	28, 335
Shore, general (occasional)	105								2, 758
Total	158, 165	57, 973	12, 448					40, 360	2, 794, 687

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[1] Exclusive of duplication.

[2] Incidental catch.

Landings by fishing vessels at the three principal New England ports, 1931—Continued

BY GEAR AND FISHING GROUNDS—Continued

Gear and fishing ground	Pollock	Cusk	Halibut	Flounders	Swordfish	Mackerel	Herring	Other	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Harpoons:									
Grand Bank (occasional)					378				378
Green Bank (occasional)					135				135
Gulf of St. Lawrence					1, 901				1, 901
Gurdo Bank					4, 474				4, 474
Quereau Bank (occasional)					794				794
The Gully					5, 567				5, 567
Cape Shore					32, 367				32, 367
La Have Bank (occasional)					1, 218				1, 218
Browns Bank					519, 416				519, 416
Browns Bank (occasional)					2, 725				2, 725
Georges Bank					1, 120, 482			913	1, 121, 395
Georges Bank (occasional)					5, 588				5, 588
South Channel					471				471
South Channel (occasional)					144				144
Off Chatham					392				392
Nantucket Shoals					3, 379				3, 379
Shore, general					41, 431				41, 431
Shore, general (occasional)					263				263
Total					1, 741, 125			913	1, 742, 038
Otter trawls, large:									
Gulf of St. Lawrence				2, 800					77, 500
Sable Island Bank (Western Bank)	373, 000	2, 685	38, 301	185, 105				190, 914	10, 554, 913
La Have Bank	170, 100	12, 490	26, 559	157, 460		100		88, 653	4, 673, 887
Browns Bank	256, 110	22, 080	57, 317	147, 950				219, 997	11, 558, 356
Georges Bank	2, 166, 135	220, 865	172, 725	1, 955, 136		9, 515	5, 700	638, 856	58, 350, 796
South Channel	559, 820	36, 985	39, 877	589, 200		1, 633		187, 613	13, 279, 249
Off Chatham	4, 450	100		2, 850				2, 580	128, 520
Nantucket Shoals	44, 600	600	1, 535	87, 405				34, 265	2, 112, 310
Shore, general				2, 000					59, 000
Total	3, 574, 215	295, 805	336, 314	3, 129, 906		[2] 11, 248	[2] 5, 700	1, 362, 878	100, 794, 531
Otter trawls, medium:									
Sable Island Bank (Western Bank)	1, 645		15	135					40, 220
Cape Shore	1, 050	800	129	1, 225				390	73, 214
La Have Bank	19, 005	1, 290	4, 059	23, 045				9, 915	833, 469
Browns Bank	48, 710	3, 790	10, 895	86, 310				70, 225	4, 231, 225
Georges Bank	321, 545	11, 450	59, 289	3, 117, 210		1, 100		190, 412	28, 714, 179
Clark Bank	2, 300			585					23, 035
South Channel	126, 907	2, 570	16, 320	1, 074, 595		395		117, 678	11, 020, 882
Off Highland Light	100			815				120	14, 160
Off Chatham	47, 660	250	458	53, 025				22, 620	637, 928

Cashes Bank		15,000							20,770
Jeffreys Ledge		330		29,003				835	47,878
Middle Bank (Stellwagen Bank)				10,230				225	37,625
South				400				2,980	3,380
Shore, general	24,515	860	424	419,870				36,312	1,092,877
Total	601,457	36,340	93,681	5,279,753		[2] 1,545		464,578	48,748,170
Otter trawls, small:									
Cape Shore				15,100					16,250
Browns Bank	450		43	1,435				1,200	42,728
Georges Bank	595		3,561	340,783				4,165	1,290,679
South Channel	50		95	50,885				50	216,930
Nantucket Shoals	150			58,015				858	126,808
Jeffreys Ledge				2,605				200	5,215
Shore, general	4,412	1,910	161	1,337,392				70,387	2,324,724
Total	5,657	1,910	3,860	1,806,215				76,860	4,023,334
Sink gill nets:									
Jeffreys Ledge	121,980	477						14,201	237,354
Shore, general	2,198,307	11,827	563	42,974				276,802	10,763,406
Total	2,320,287	12,304	563	42,974				291,003	11,000,760
Drift gill nets:									
Bay of Islands							3,555,314		3,555,314
Georges Bank						9,147			9,147
Jeffreys Ledge						4,920			4,920
South						150,760		25	150,785
Shore, general						1,486,100	200	19,623	1,505,923
Shore, general (occasional)						9,290			9,290
Total						1,660,217	3,555,514	19,648	5,235,379
Purse seines:									
Cape Shore						189,784			189,784
Georges Bank						1,485,450		430	1,485,880
South Channel						1,170,885		600	1,171,485
Off Chatham						1,037,980		1,330	1,039,310
Nantucket Shoals						784,972		250	785,222
Middle Bank (Stellwagen Bank)						69,775			69,775
South						2,098,290		150	2,098,450
Shore, general					324	21,035,973	746,930	456,383	22,239,610
Total					[2] 324	27,873,109	746,930	459,153	29,079,516
Scallop drags: Shore, general (occasional)								90	90
Grand total	7,632,747	4,269,111	2,570,481	10,275,344	1,760,329	29,546,439	4,308,144	3,247,640	266,037,858

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[2] Incidental catch.

Landings by fishing vessels at the three principal New England ports, 1931—Continued

SUMMARY: BY FISHING GROUNDS

Fishing ground	Vessels fishing	Trips	Days absent	Cod			Haddock		Hake	
				Large	Market	Scrod	Large	Scrod	Large	Small
East of 66° W. longitude	*Number*	*Number*	*Number*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Off Newfoundland:										
Off Funks	1	1	5							
Grand Bank	5	8	183	4, 412	246				5, 239	
Green Bank	3	3	70	4, 617	1, 377					307
St. Peters Bank	3	5	113	1, 540	780					1, 470
Bay of Islands	7	8	412							
Off Newfoundland	2	2	36							
Total	[1] 17	27	819	10, 569	2, 403				5, 239	1, 777
Off Canada:										
Seal Island grounds	2	2	11	3, 020	2, 945	270	10, 420	375		10, 625
Gulf of St. Lawrence	4	4	90	580, 251	284, 071	11, 088	40, 700	900	21, 680	
Scatari Bank	1	1	35	7, 154	2, 716					
Gurdo Bank	1	1	26							
Quereau Bank	10	14	308	73, 651	13, 302	228	1, 390		5, 276	
The Gully	4	5	99	8, 600	12, 985		40, 000			
Sable Island Bank (Western Bank)	52	113	1, 286	2, 135, 480	1, 760, 503	35, 130	7, 210, 770	229, 080	79, 310	
Cape Shore	48	114	1, 221	713, 390	1, 477, 615	715	1, 880, 785	12, 505	285, 820	10, 040
Emerald Bank	1	1	8	24, 000	18, 980		38, 800			
La Have Bank	75	138	1, 376	1, 180, 942	1, 618, 847	21, 075	5, 139, 795	245, 710	170, 980	565
Roseway Bank	4	5	41	49, 210	99, 300		131, 050		10, 500	
Total	[1] 125	398	4, 501	4, 775, 698	5, 291, 264	68, 506	14, 493, 710	488, 570	573, 566	21, 230
West of 66° W. longitude										
Off United States:										
Browns Bank	166	634	6, 775	5, 906, 152	5, 132, 876	13, 930	23, 056, 107	544, 815	876, 000	16, 920
Georges Bank	274	2, 067	20, 468	14, 689, 020	10, 572, 061	146, 045	49, 380, 391	10, 478, 125	1, 942, 794	18, 920
Clark Bank	1	1	8	1, 600	250		16, 500	100	1, 700	
South Channel	180	931	6, 979	3, 451, 655	5, 155, 500	26, 305	21, 634, 602	2, 211, 868	1, 835, 770	6, 510
Off Highland Light	3	3	14	5, 400	8, 325		46, 100	5, 800	5, 500	
Off Chatham	71	129	631	72, 645	110, 101	489	476, 318	57, 080	57, 220	
Nantucket Shoals	91	161	1, 179	225, 960	485, 775	3, 160	2, 463, 270	505, 420	119, 680	
Cashes Bank	16	32	130	74, 340	41, 950	2, 475	129, 125	2, 103	130, 835	56, 630
Fippenies Bank	6	6	28	15, 580	8, 860		24, 815		28, 800	4, 395
Platts Bank	4	6	15	9, 935	4, 122	125	18, 210	540	8, 240	9, 825
Jeffreys Ledge	38	361	735	259, 235	102, 923	11, 316	913, 912	34, 990	267, 551	306, 428
Tillies Bank	1	1	8	190			3, 100	200	3, 200	
Middle Bank (Stellwagen Bank)	12	60	297	42, 650	21, 053	800	434, 985	26, 565	207, 800	4, 000
South	65	106	362							
Shore, general	257	6, 620	11, 983	4, 435, 670	607, 261	26, 403	5, 215, 632	183, 370	713, 407	536, 786
Total	[1] 416	11, 118	49, 612	29, 190, 032	22, 251, 057	231, 048	103, 813, 067	14, 050, 976	6, 198, 497	960, 414
Grand total	[1] 427	11, 543	54, 932	33, 976, 299	27, 544, 724	299, 554	118, 306, 777	14, 539, 546	6, 777, 302	983, 421

Fishing ground	Pollock	Cusk	Halibut	Flounders	Swordfish	Mackerel	Herring	Other	Total
East of 66° W. longitude									
Off Newfoundland:	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Off Funks			32, 530						32, 530
Grand Bank		885	273, 825		378			2, 500	287, 485
Green Bank		40	65, 439		135				71, 915
St. Peters Bank		2, 975	214, 734						221, 499
Bay of Islands							3, 555, 314		3, 555, 314
Off Newfoundland			81, 573						81, 573
Total		3, 900	668, 101		513		3, 555, 314	2, 500	4, 250, 316
Off Canada:									
Seal Island grounds	672	6, 075	164					1, 850	36, 416
Gulf of St. Lawrence			44, 526	2, 800	1, 901				987, 917
Scatari Bank		1, 102	6, 117						17, 089
Gurdo Bank					4, 474				4, 474
Quereau Bank	247	15, 360	215, 794		2, 119			2, 451	329, 818
The Gully	355	10, 125	48, 671		5, 567				126, 303
Sable Island Bank (Western Bank)	388, 880	14, 210	82, 706	185, 240	195			193, 954	12, 315, 458
Cape Shore	90, 870	387, 645	11, 578	16, 675	32, 367	189, 784		58, 245	5, 168, 034
Emerald Bank	275	940	822						83, 817
La Have Bank	223, 905	162, 625	136, 300	180, 505	1, 421	420		117, 888	9, 200, 978
Roseway Bank	2, 100	18, 555	976					2, 375	314, 066
Total	707, 304	616, 637	547, 654	385, 220	48, 044	190, 204		376, 763	28, 584, 370
West of 66° W. longitude									
Off United States:									
Browns Bank	603, 335	2, 000, 857	374, 988	239, 945	533, 003			453, 537	39, 752, 465
Georges Bank	2, 643, 626	522, 136	829, 482	5, 413, 209	1, 132, 365	1, 505, 212	5, 700	863, 519	100, 142, 605
Clark Bank	2, 300			585					23, 035
South Channel	1, 037, 042	238, 410	83, 038	1, 719, 505	615	1, 172, 913		361, 596	38, 935, 329
Off Highland Light	560	600		815				120	73, 220
Off Chatham	58, 460	3, 050	537	55, 875	392	1, 037, 980		28, 920	1, 959, 067
Nantucket Shoals	59, 410	1, 760	49, 186	608, 725	3, 379	785, 022		48, 501	5, 359, 248
Cashes Bank	26, 015	225, 200	3, 707					16, 265	708, 645
Fippenies Bank	4, 230	18, 670	522					950	106, 822
Platts Bank	3, 680	7, 430	388					4, 325	66, 820
Jeffreys Ledge	180, 876	300, 883	3, 104	35, 243		4, 920		126, 042	2, 547, 423
Tillies Bank	500	200							7, 390
Middle Bank (Stellwagen Bank)	13, 040	64, 520	806	10, 230		69, 775		6, 672	902, 896
South				400		2, 249, 050		3, 165	2, 252, 615
Shore, general	2, 292, 369	264, 858	8, 968	1, 805, 592	42, 018	22, 531, 363	747, 130	954, 765	40, 365, 592
Total	6, 925, 443	3, 648, 574	1, 354, 726	9, 890, 124	1, 711, 772	29, 356, 235	752, 830	2, 868, 377	233, 203, 172
Grand total	7, 632, 747	4, 269, 111	2, 570, 481	10, 275, 344	1, 760, 329	29, 546, 439	4, 308, 144	3, 247, 640	266, 037, 858

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[1] Exclusive of duplication.

NOTE.—The weight of salted fish landed has been converted to the equivalent of fresh fish as landed.

Days' absence from port of fishing vessels landing fish at Boston and Gloucester, Mass., and Portland, Me., 1931

Fishing ground	January	February	March	April	May	June	July
Off Newfoundland:							
Grand Bank	--------	--------	--------	2	91	--------	47
Green Bank	--------	27	--------	--------	--------	--------	--------
St. Peters Bank	--------	21	44	27	--------	--------	21
Bay of Islands	316	--------	--------	--------	--------	--------	--------
Off Newfoundland	--------	--------	--------	--------	--------	--------	36
Total	316	48	44	29	91	--------	104
Off Canada:							
Gulf of St. Lawrence	--------	--------	--------	--------	22	--------	--------
Scatari Bank	--------	--------	--------	--------	--------	35	--------
Quereau Bank	--------	--------	--------	5	45	141	--------
The Gully	--------	--------	24	55	--------	--------	--------
Sable Island Bank (Western Bank)	240	--------	98	347	97	62	93
Cape Shore	39	--------	--------	--------	16	54	23
Emerald Bank	--------	--------	--------	--------	--------	--------	8
La Have Bank	198	146	40	101	52	32	70
Roseway Bank	--------	--------	--------	--------	8	--------	--------
Total	477	146	162	508	240	324	194
Off United States:							
Browns Bank	718	899	978	1, 212	341	122	614
Georges Bank	1, 644	1, 276	1, 982	1, 028	1, 446	2, 047	2, 430
Clark Bank	8	--------	--------	--------	--------	--------	--------
South Channel	488	240	366	136	435	740	1, 114
Off Chatham	15	20	28	10	19	24	405
Nantucket Shoals	80	41	60	35	127	54	194
Cashes Bank	24	--------	10	14	19	--------	5
Fippenies Bank	--------	--------	--------	5	--------	--------	--------
Platts Bank	5	2	--------	--------	--------	--------	--------
Jeffreys Ledge	190	141	91	16	14	7	1
Middle Bank (Stellwagen Bank)	50	49	37	4	--------	--------	6
South	--------	--------	--------	9	274	79	--------
Shore, general	684	595	741	912	756	1, 059	605
Total	3, 906	3, 263	4, 293	3, 381	3, 431	4, 132	5, 374
Grand total	4, 699	3, 457	4, 499	3, 918	3, 762	4, 456	5, 672

Fishing ground	August	September	October	November	December	Total
Off Newfoundland:						
Off Funks	5	--------	--------	--------	--------	5
Grand Bank	43	--------	--------	--------	--------	183
Green Bank	43	--------	--------	--------	--------	70
St. Peters Bank	--------	--------	--------	--------	--------	113
Bay of Islands	--------	--------	--------	--------	96	412
Off Newfoundland	--------	--------	--------	--------	--------	36
Total	91	--------	--------	--------	96	819
Off Canada:						
Seal Island grounds	--------	--------	11	--------	--------	90
Gulf of St. Lawrence	48	--------	5	15	--------	11
Scatari Bank	--------	--------	--------	--------	--------	35
Gurdo Bank	--------	26	--------	--------	--------	26
Quereau Bank	22	63	32	--------	--------	308
The Gully	20	--------	--------	--------	--------	99
Sable Island Bank (Western Bank)	--------	32	71	129	117	1, 286
Cape Shore	70	93	95	470	361	1, 221
Emerald Bank	--------	--------	--------	--------	--------	8
La Have Bank	87	87	183	170	210	1, 376
Roseway Bank	5	--------	--------	--------	28	41
Total	252	301	397	784	716	4, 501
Off United States:						
Browns Bank	934	259	117	160	421	6, 775
Georges Bank	1, 719	2, 592	1, 353	1, 591	1, 360	20, 468
Clark Bank	--------	--------	--------	--------	--------	8
South Channel	1, 061	711	1, 048	446	194	6, 979
Off Highland Light	--------	3	7	4	--------	14
Off Chatham	46	--------	36	15	13	631
Nantucket Shoals	73	96	150	173	96	1, 179
Cashes Bank	--------	--------	5	42	11	130

Days' absence from port of fishing vessels landing fish at Boston and Gloucester, Mass., and Portland, Me., 1931—Continued

Fishing ground	August	September	October	November	December	Total
Off United States—Continued.						
Fippenies Bank			5	9	9	28
Platts Bank			5	3		15
Jeffreys Ledge	2	11	91	83	88	735
Tillies Bank					8	8
Middle Bank (Stellwagen Bank)			14	58	79	297
South						362
Shore, general	1,768	1,729	1,021	1,343	770	11,983
Total	5,603	5,401	3,852	3,927	3,049	49,612
Grand total	5,946	5,702	4,249	4,711	3,861	54,932

MACKEREL FISHERY OF THE ATLANTIC COAST

That part of the 1931 mackerel catch taken by purse seines and drift gill nets and landed at the principal Atlantic receiving ports amounted to 36,483,472 pounds, a decrease of 16 per cent as compared with similar figures for the previous year. Because of their importance in certain seasons, the catch of fishing boats of less than 5 net tons capacity has been included in so far as data were available. The catch by shore gear, such as pound nets and traps, were omitted. Practically all of the statistics were collected by the bureau's agents at Cape May, N. J.; New York City, N. Y.; Boston, Gloucester, and Woods Hole, Mass.; and Portland, Me. A few of the landings, particularly at ports not having a bureau representative, were secured from unofficial sources and often consisted of estimated rather than "weighed out" fares. The error involved is probably well under 5 per cent in the vessel fishery. The figures on the boat fishery are probably less complete.

Mackerel fishery of the Atlantic coast, 1931

CATCH: BY PORTS IN 5-DAY PERIODS[1]

Date	Cape May, Wildwood, and Atlantic City	New York	Newport, New Bedford, Cape Cod Canal, Woods Hole, Nantucket, and Provincetown	Boston	Gloucester	Portland, Rockland, Boothbay, and Southwest Harbor	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
April 6–10	14,500						14,500
April 11–15	1,900						1,900
April 16–20	942,222	86,700					1,028,922
April 21–25	608,378	13,970					622,348
April 26–30	145,500	5,458		57,300			208,258
May 1–5	559,233	182,475	1,800	31,380			774,888
May 6–10	475,450	107,136	350				582,936
May 11–15	104,250	654,825	66,103	548,300			1,373,478
May 16–20		167,850	200,540	271,500	1,175		641,065
May 21–25		154,239	193,555	384,685	24,450	655	757,584
May 26–31		89,530	376,251	684,375	215,720	12,270	1,378,146
June 1–5		90,000	117,663	662,380	51,485	13,870	935,398
June 6–10		38,000	50,075	426,840	95,519	1,165	611,599

[1] The landings at the ports of Boston, Gloucester, and Portland vary somewhat from those published under "Vessel fisheries at principal New England ports" in the annual reports of the division of fishery industries, due to the inclusion of landings of some small boats in the above data and also to different methods in the collection of the statistics.

Mackerel fishery of the Atlantic coast, 1931—Continued

CATCH: BY PORTS IN 5-DAY PERIODS—Continued.

Date	Cape May, Wildwood, and Atlantic City	New York	Newport, New Bedford, Cape Cod Canal, Woods Hole, Nantucket, and Provincetown	Boston	Gloucester	Portland, Rockland, Boothbay, and Southwest Harbor	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
June 11-15			40, 415	174, 930	9, 435	3, 601	228, 381
June 16-20		20, 000	68, 590	1, 067, 891	97, 095	15, 282	1, 268, 858
June 21-25		11, 000	268, 000	609, 270	28, 370	37, 962	954, 602
June 26-30			5, 600	539, 025	76, 455	12, 225	633, 305
July 1-5				1, 068, 645	196, 370	42, 596	1, 307, 611
July 6-10			21, 500	1, 126, 930	152, 050	8, 085	1, 308, 565
July 11-15			89, 625	642, 720	66, 720	5, 935	805, 000
July 16-20				729, 262	187, 655	1, 770	918, 687
July 21-25			31, 000	325, 800	50, 380	730	407, 910
July 26-31			4, 275	420, 225	72, 550	29, 180	526, 230
Aug. 1-5				923, 131	235, 875	190, 840	1, 349, 846
Aug. 6-10			13, 000	426, 275	274, 715	189, 855	903, 845
Aug. 11-15				393, 005	49, 350	104, 076	546, 431
Aug. 16-20				1, 406, 915	562, 172	248, 175	2, 217, 262
Aug. 21-25				1, 444, 310	1, 171, 383	281, 388	2, 897, 081
Aug. 26-31			60, 000	943, 440	771, 000	401, 862	2, 176, 302
Sept. 1-5				629, 070	222, 355	96, 185	947, 610
Sept. 6-10				592, 985	401, 080	77, 850	1, 071, 915
Sept. 11-15				899, 025	626, 902	238, 795	1, 764, 722
Sept. 16-20			15, 000	445, 430	207, 470	161, 723	829, 623
Sept. 21-25				499, 930	633, 655	227, 487	1, 361, 072
Sept. 26-30				327, 600	213, 160	12, 820	553, 580
Oct. 1-5			4, 500	284, 830	167, 305	1, 843	458, 478
Oct. 6-10			1, 535	273, 830	26, 466	4, 355	306, 186
Oct. 11-15			3, 633	52, 530	88, 543	5, 035	149, 741
Oct. 16-20				59, 645	2, 445	277	62, 367
Oct. 21-25				184, 747	68, 040	342	253, 129
Oct. 26-31					4, 815	779	5, 594
Nov. 1-5				1, 390	4, 340	773	6, 503
Nov. 6-10					12, 496	489	12, 985
Nov. 11-15					31, 741	750	32, 491
Nov. 16-20				49, 925	58, 020	475	108, 420
Nov. 21-25				106, 017	565, 575	9, 360	680, 952
Nov. 26-30				45, 630	217, 922		263, 552
Dec. 1-5				46, 868	65, 548		112, 416
Dec. 6-10				24, 420	74, 522		98, 942
Dec. 11-15				1, 300	18, 116		19, 416
Dec. 16-20				2, 100	740		2, 840
Total	2, 851, 433	1, 621, 183	1, 633, 010	19, 835, 806	8, 101, 180	2, 440, 860	36, 483, 472

OPERATING UNITS AND CATCH: BY FLEET CLASSIFICATION AND GROUNDS

Designation	Vessels and boats	Tonnage	Crew	Trips	Total catch
SOUTHERN					
Seiners:	*Number*	*Net tons*	*Number*	*Number*	*Pounds*
Regular vessels	36	1, 386	460	212	3, 742, 709
Miscellaneous vessels	19	710	218	47	721, 189
Netters:					
Regular vessels	19	409	135	121	594, 841
Miscellaneous vessels	17	283	107	49	181, 335
Miscellaneous boats	2			4	4, 165
Total	[1] 91	2, 788	920	433	5, 244, 239

[1] Exclusive of boats and of duplication.

Mackerel fishery of the Atlantic coast, 1931—Continued

OPERATING UNITS AND CATCH: BY FLEET CLASSIFICATION AND GROUNDS—Continued

Designation	Vessels and boats	Tonnage	Crew	Trips	Total catch
BLOCK ISLAND					
Seiners:	*Number*	*Net tons*	*Number*	*Number*	*Pounds*
Regular vessels (spring)	47	1, 645	587	261	4, 300, 955
Miscellaneous vessels (spring)	32	798	259	63	932, 478
Miscellaneous vessels (summer)	24	930	297	34	886, 547
Netters:					
Regular vessels	16	262	99	63	555, 127
Miscellaneous vessels	25	461	157	36	332, 866
Miscellaneous boats	8			18	55, 209
Total	[1] 121	4, 096	1, 399	475	7, 063, 182
GULF OF MAINE					
Seiners:					
Regular vessels	55	1, 883	673	918	17, 288, 071
Miscellaneous vessels	54	1, 236	457	398	5, 013, 146
Miscellaneous boats	7			23	151, 450
Netters:					
Spring—					
Regular vessels	2	18	9	28	39, 844
Miscellaneous vessels	9	119	45	13	22, 930
Miscellaneous boats	6			17	13, 800
Fall—					
Regular vessels	46	1, 140	348	596	1, 110, 824
Miscellaneous vessels	31	645	217	124	235, 004
Miscellaneous boats	11			26	13, 658
Total	[1] 147	5, 041	1, 749	2, 143	23, 888, 727
CAPE SHORE					
Seiners, regular vessels	5	262	70	6	287, 324
Total seiners	[1] 112			1, 962	33, 323, 869
Total netters	[1] 94			1, 095	3, 159, 603
Grand total	[1] 160			3, 057	36, 483, 472

[1] Exclusive of boats and of duplication.

FISHERIES OF THE MIDDLE ATLANTIC STATES [6]

The yield of fishery products in the Middle Atlantic States (New York, New Jersey, Pennsylvania, and Delaware) during 1930 amounted to 193,867,981 pounds, valued at $13,063,672. This is an increase of 2 per cent in the amount of the catch, but a decrease of 8 per cent in the value of the catch as compared with the quantity and its value for 1929. Of the total catch in 1930, 131,637,591 pounds, valued at $3,587,793, were fish; and 62,230,390 pounds, valued at $9,475,879, were shellfish and miscellaneous products. These fisheries gave employment to 10,065 fishermen or 1 per cent more than in 1929. Of the total number of fishermen employed during 1930, 4,665 regular fishermen were engaged on vessels, and 3,180 regular and 2,760 casual fishermen were employed in the shore and boat fisheries.

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[6] With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical Survey Procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

Fisheries of the Middle Atlantic States, 1930

SUMMARY OF CATCH

Product	New York		New Jersey		Pennsylvania	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	27,280,562	$1,067,939	55,578,024	$1,993,577	16,745	$2,803
Shellfish, etc.	18,213,989	3,865,710	41,697,861	5,480,848		
Total	45,494,551	4,933,649	97,275,885	7,474,425	16,745	2,803

Product	Delaware		Total	
	Pounds	Value	Pounds	Value
Fish	48,762,260	$523,474	131,637,591	$3,587,793
Shellfish, etc.	2,318,540	129,321	62,230,390	9,475,879
Total	51,080,800	652,795	193,867,981	13,063,672

OPERATING UNITS: BY STATES

Item	New York	New Jersey	Pennsylvania	Delaware	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	707	3,292		666	4,665
On boats and shore—					
Regular	1,236	1,747		197	3,180
Casual	1,157	1,177	52	374	2,760
Total	3,100	6,216	52	1,237	10,605
Vessels:					
Steam	1			14	15
Net tonnage	36			1,904	1,940
Motor	168	286		9	463
Net tonnage	2,275	4,434		289	6,998
Sail	10	77		10	97
Net tonnage	88	2,085		133	2,306
Total vessels	179	363		33	575
Total net tonnage	2,399	6,519		2,326	11,244
Boats:					
Motor	562	1,379	5	68	2,014
Other	1,080	750	14	192	2,036
Accessory boats	79	121		86	286
Apparatus:					
Purse seines—					
Menhaden	4	1		16	21
Length, yards	1,340	456		6,528	8,324
Other	1	15			16
Length, yards	400	5,880			6,280
Haul seines	141	102	11	87	341
Length, yards	20,503	11,898	1,380	23,970	57,751
Gill nets—					
Anchor	198	5			203
Square yards	34,387	5,940			40,327
Drift	581	862	11	79	1,533
Square yards	450,986	658,830	15,690	211,379	1,336,885
Runaround	40	90		45	175
Square yards	71,620	405,674		40,000	517,294
Stake	110	1,340		209	1,659
Square yards	35,819	161,823		23,424	221,066
Lines—					
Hand	90	555	1	52	698
Hooks	128	793	1	104	1,026
Trawl	1,897	824		14	2,735
Hooks	279,225	503,450		6,100	788,775
Troll	20	304			324
Hooks	20	316			336
Trot, with baits or snoods		4		1	5
Baits or snoods		1,775		50	1,825
Trot, with hooks	15				15
Hooks	2,640				2,640

Fisheries of the Middle Atlantic States, 1930—Continued

OPERATING UNITS: BY STATES—Continued

Item	New York	New Jersey	Pennsylvania	Delaware	Total
Apparatus—Continued	*Number*	*Number*	*Number*	*Number*	*Number*
Pound nets	418	181	---------	67	666
Floating traps	9	---------	---------	---------	9
Wiers	---------	83	---------	---------	83
Stop nets	18	60	---------	9	87
Square yards	13,170	34,704	---------	3,368	51,242
Fyke nets	2,412	1,772	30	320	4,534
Dip nets	65	36	---------	36	137
Cast nets	---------	4	---------	7	11
Scap nets	158	---------	---------	---------	158
Drag nets	18	6	---------	---------	24
Yards at mouth	32	17	---------	---------	49
Push nets	29	---------	---------	---------	29
Otter trawls—					
Fish	114	61	---------	---------	175
Yards at mouth	2,887	1,331	---------	---------	4,218
Scallops	1	---------	---------	---------	1
Yards at mouth	12	---------	---------	---------	12
Shrimp	1	3	---------	---------	4
Yards at mouth	30	72	---------	---------	102
Pots—					
Crab	54	4	---------	---------	58
Eel	4,391	5,299	---------	775	10,465
Lobster	17,841	33,920	---------	185	51,946
Harpoons	21	---------	---------	---------	21
Spears	139	60	---------	6	205
Dredges—					
Clam	16	56	---------	10	82
Yards at mouth	16	62	---------	10	88
Crab	---------	53	---------	---------	53
Yards at mouth	---------	59	---------	---------	59
Mussel	8	---------	---------	---------	8
Yards at mouth	10	---------	---------	---------	10
Oyster	105	537	---------	32	674
Yards at mouth	144	634	---------	39	817
Scallop	1,210	9	---------	---------	1,219
Yards at mouth	1,196	29	---------	---------	1,225
Tongs	605	868	---------	80	1,553
Rakes	455	667	---------	6	1,128
Forks	456	19	---------	---------	475
Hoes	---------	74	---------	---------	74
Gaffs	---------	32	---------	1	33

Fisheries of the Middle Atlantic States, 1930—Continued

CATCH: BY STATES

Species	New York		New Jersey		Pennsylvania		Delaware		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH										
Albacore	59, 900	$2, 050	31, 114	$509					91, 014	$2, 559
Alewives	631, 694	10, 053	1, 464, 122	15, 928	2, 000	$100	3, 193, 966	$9, 742	5, 291, 782	35, 823
Bluefish	821, 080	77, 657	2, 961, 744	312, 662			31, 010	2, 314	3, 813, 834	392, 633
Bonito	186, 589	13, 733	230, 246	13, 161					416, 835	26, 894
Butterfish	742, 791	58, 445	2, 393, 821	178, 609					3, 136, 612	237, 054
Carp	170, 450	22, 871	100, 432	13, 146	893	97	85, 836	9, 045	357, 611	45, 159
Catfish and bullheads	17, 538	3, 071	36, 347	2, 961	1, 425	163	38, 917	3, 761	94, 227	9, 956
Cero			20, 000	2, 000					20, 000	2, 000
Cod	2, 802, 306	95, 220	7, 779, 371	235, 669			97, 144	3, 600	10, 678, 821	334, 489
Croaker	325, 000	8, 125	1, 439, 807	50, 493			1, 124, 930	28, 704	2, 889, 737	87, 322
Cusk			8, 400	84					8, 400	84
Dolphin			1, 132	40					1, 132	40
Drum:										
Black			6, 904	135					6, 904	135
Red or redfish			64, 924	11, 656					64, 924	11, 656
Eels	637, 477	77, 378	539, 749	58, 608	865	200	93, 589	10, 996	1, 271, 680	147, 182
Flounders	6, 499, 904	216, 314	2, 926, 352	147, 850			132, 553	9, 503	9, 558, 809	373, 667
Gizzard shad							950	7	950	7
Goosefish			37, 892	1, 118					37, 892	1, 118
Grayfish	1, 250	38	11, 440	229					12, 690	267
Grunts			150	6					150	6
Haddock	2, 567, 655	76, 837	5, 797	205					2, 573, 452	77, 042
Hagfish			7, 200	72					7, 200	72
Hake	142, 755	2, 446	222, 747	4, 002					365, 502	6, 448
Halibut	4, 895	968							4, 895	968
Herring, sea	32, 456	674	659, 847	6, 664					692, 303	7, 338
King whiting or "kingfish"	14, 021	1, 821	69, 223	7, 538			3, 080	119	86, 324	9, 478
Mackerel	464, 735	20, 743	655, 728	25, 442					1, 120, 463	46, 185
Menhaden	4, 599, 640	19, 423	5, 918, 010	41, 350			41, 960, 142	307, 112	52, 477, 792	367, 885
Minnows	147, 694	4, 438	18, 000	220					165, 694	4, 658
Mullet			340	22			64, 800	4, 300	65, 140	4, 322
Mummichog	110, 155	9, 167	16, 000	200					126, 155	9, 367
Pike or pickerel	705	108							705	108
Pilotfish			2, 460	123					2, 460	123
Pollock	111, 430	2, 787	2, 964	111					114, 394	2, 898
Rosefish	1, 375	41							1, 375	41
Scup or porgy	1, 089, 581	31, 257	7, 564, 041	183, 266			27, 000	2, 160	8, 680, 622	216, 683
Sea bass	319, 751	24, 468	3, 546, 149	134, 360			20, 250	1, 620	3, 886, 150	160, 448

	14, 654	315	117, 747	1, 946					132, 401	2, 261
Shad	167, 162	28, 267	223, 714	41, 127	4, 855	1, 464	54, 446	10, 874	450, 177	81, 732
Sharks	450	23	176, 469	3, 795					176, 919	3, 818
Silversides	260, 410	12, 395							260, 410	12, 395
Skates	27, 513	333	241, 091	4, 380					268, 604	4, 713
Smelt	3, 100	868							3, 100	868
Snapper, red			4, 000	400					4, 000	400
Spanish mackerel			15, 839	1, 496					15, 839	1, 496
Spot	3, 878	309	542, 616	22, 645			146, 761	8, 250	693, 255	31, 204
Squeteague or "sea trout," gray	939, 368	67, 165	11, 097, 692	357, 844			1, 234, 725	40, 468	13, 271, 785	465, 477
Striped bass	66, 440	11, 344	36, 862	5, 761			102, 027	22, 449	205, 329	39, 554
Sturgeon	2, 110	610	4, 208	1, 787	182	182	15, 313	6, 253	21, 813	8, 832
Suckers	44, 352	5, 054	27, 575	2, 827	6, 525	597	150	9	78, 602	8, 487
Sunfish	2, 028	211							2, 028	211
Swordfish	234, 140	37, 887							234, 140	37, 887
Tautog	82, 177	6, 196	181, 966	6, 115			74, 000	2, 300	338, 143	14, 611
Thimble-eyed mackerel			35, 722	1, 115					35, 722	1, 115
Tilefish	2, 312, 200	88, 415							2, 312, 200	88, 415
Tomcod	120, 805	4, 818							120, 805	4, 818
Tuna or "horse mackerel"	19, 600	2, 301	37, 562	2, 473					57, 162	4, 774
Whitebait	95, 800	7, 140							95, 800	7, 140
White perch	20, 791	3, 070	149, 356	17, 226			209, 971	35, 115	380, 118	55, 411
Whiting	349, 267	10, 367	3, 763, 942	59, 568					4, 113, 209	69, 935
Wolffish	6, 425	113							6, 425	113
Yellow perch	5, 065	605	179, 210	14, 633			47, 760	4, 689	232, 035	19, 927
Yellowtail							2, 940	84	2, 940	84
Total	27, 280, 562	1, 067, 939	55, 578, 024	1, 993, 577	16, 745	2, 803	48, 762, 260	523, 474	131, 637, 591	3, 587, 793
SHELLFISH, ETC.										
Crabs:										
Hard	165, 144	8, 716	252, 056	20, 307					417, 200	29, 023
King			5, 215, 800	27, 548			968, 760	1, 265	6, 184, 560	28, 813
Rock	640	80							640	80
Soft	5, 576	1, 704	105, 824	15, 173			23, 800	4, 850	135, 200	21, 727
Lobsters	536, 391	136, 692	1, 010, 579	230, 110			11, 750	2, 620	1, 558, 720	369, 422
Shrimp	95, 530	14, 318	245, 526	14, 485					341, 056	28, 803
Squid	533, 984	21, 757	1, 239, 524	33, 019					1, 773, 508	54, 776
Clams:										
Hard, public [1]	793, 656	358, 302	1, 561, 556	648, 098			18, 503	3, 790	2, 373, 715	1, 010, 190
Hard, private [1]	46, 180	18, 122	150, 910	25, 058			6, 003	2, 001	203, 093	45, 181
Razor	3, 080	756							3, 080	756
Soft, public [2]	501, 975	70, 448	628, 628	87, 808					1, 130, 603	158, 256
Soft, private [2]	192	12							192	12
Surf or skimmers	291, 270	34, 639	131, 670	15, 281					422, 940	49, 920

[1] Statistics on hard clams used in this table are based on yields of 9 pounds of meats per bushel for those from public beds in New York, and 8 pounds for those from public beds in New Jersey and Delaware; 10 pounds for those from private beds in New York and New Jersey, and 8 pounds for those from private beds in Delaware. In reports for previous years all hard clams in these States have been computed on the basis of a uniform yield of 8 pounds of meats to the bushel.

[2] Statistics on soft clams used in this table are based on yields of 15 pounds of meats to the bushel in New York and 12 pounds in New Jersey. In reports for previous years all soft clams have been computed on the basis of a uniform yield of 10 pounds of meats to the bushel.

Fisheries of the Middle Atlantic States, 1930—Continued

CATCH: BY STATES—Continued

Species	New York		New Jersey		Pennsylvania		Delaware		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC.—continued										
Conchs	35, 226	$2, 945							35, 226	$2, 945
Mussels	271, 500	11, 985	4, 200	$282			19, 500	$1, 875	295, 200	14, 142
Oysters: [3]										
Market, public, spring	8, 767	2, 166	37, 602	5, 671					46, 369	7, 837
Market, public, fall	7, 521	1, 858	121, 226	16, 613			166, 467	18, 942	295, 214	37, 413
Market, private, spring	4, 741, 779	1, 123, 278	3, 656, 171	587, 952			28, 120	3, 967	8, 426, 070	1, 715, 197
Market, private, fall	4, 505, 158	1, 045, 663	8, 009, 996	1, 238, 752			233, 513	32, 002	12, 748, 667	2, 316, 417
Seed, public, spring	132, 720	17, 475	18, 621, 970	2, 421, 382			764, 100	53, 370	19, 518, 790	2, 492, 227
Seed, public, fall	96, 215	13, 460	82, 804	9, 959			75, 374	4, 501	254, 393	27, 920
Seed, private, spring	738, 878	130, 006	439, 343	42, 044					1, 178, 221	172, 050
Seed, private, fall	2, 854, 610	381, 550	4, 000	300					2, 858, 610	381, 850
Scallops:										
Bay	396, 711	115, 274							396, 711	115, 274
Sea	1, 338, 462	230, 746	164, 100	33, 342					1, 502, 562	264, 088
Terrapin, diamond-back			6, 041	7, 052					6, 041	7, 052
Turtles:										
Loggerhead			905	31					905	31
Snapper			7, 430	581			2, 650	138	10, 080	719
Bloodworms	54, 404	62, 588							54, 404	62, 588
Sandworms	58, 420	61, 170							58, 420	61, 170
Total	18, 213, 989	3, 865, 710	41, 697, 861	5, 480, 848			2, 318, 540	129, 321	62, 230, 390	9, 475, 879
Grand total	45, 494, 551	4, 933, 649	97, 275, 885	7, 474, 425	16, 745	$2, 803	51, 080, 800	652, 795	193, 867, 981	13, 063, 672

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[3] Statistics on oysters used in this table are based on yields of 7 pounds of meats per bushel for market oysters in New York, 8.41 pounds for market oysters in New Jersey, and 7.5 pounds for market oysters in Delaware; and 7 pounds for seed oysters in New York, and 4.5 pounds for seed oysters in New Jersey and Delaware. In reports for previous years, all oysters in these States have been computed on the basis of a uniform yield of 7 pounds of meats to the bushel.

NOTE.—Of the above catch, all the cero and red snapper were taken off the coast of Florida. In addition, 45,000 pounds of shrimp, valued at $1,800, which were reported under New York, were taken off the coast of Florida; and 830 pounds of bluefish, valued at $123; 6,750 pounds of shad, valued at $900; 2,141 pounds of Spanish mackerel, valued at $145; and 222,658 pounds of shrimp, valued at $9,132 which were reported under New Jersey, were also taken off the coast of Florida.

Fisheries of the Middle Atlantic States, 1930—Continued

PRODUCTION OF CERTAIN SHELLFISH IN NUMBERS AND BUSHELS

Product	New York		New Jersey		Delaware		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Crabs:								
Hard.........number..	495, 432	$8, 716	756, 168	$20, 307	--------	--------	1, 251, 600	$29, 023
King.........do....	--------	--------	1, 303, 950	27, 548	242, 190	$1, 265	1, 546, 140	28, 813
Rock.........do....	1, 920	80	--------	--------	--------	--------	1, 920	80
Soft.........do....	16, 728	1, 704	317, 472	15, 173	71, 400	4, 850	405, 600	21, 727
Clams:								
Hard, public.......bushels..	88, 184	358, 302	195, 194	648, 098	2, 313	3, 790	285, 691	1, 010, 190
Hard, private.........do....	4, 618	18, 122	15, 091	25, 058	750	2, 001	20, 459	45, 181
Soft, public.........do....	33, 465	70, 448	52, 386	87, 808	--------	--------	85, 851	158, 256
Soft, private.........do....	13	12	--------	--------	--------	--------	13	12
Surf or skimmers.....do....	24, 272	34, 639	10, 972	15, 281	--------	--------	35, 244	49, 920
Conchs.........do....	1, 957	2, 945	--------	--------	--------	--------	1, 957	2, 945
Mussels.........do....	27, 150	11, 985	420	282	1, 950	1, 875	29, 520	14, 142
Oysters:								
Market, public, spring.........bushels..	1, 252	2, 166	4, 471	5, 671	--------	--------	5, 723	7, 837
Market, public, fall....do....	1, 074	1, 858	14, 415	16, 613	22, 196	18, 942	37, 685	37, 413
Market, private, spring.........bushels..	677, 397	1, 123, 278	434, 741	587, 952	3, 749	3, 967	1, 115, 887	1, 715, 197
Market, private, fall..do....	643, 594	1, 045, 663	952, 437	1, 238, 752	31, 135	32, 002	1, 627, 166	2, 316, 417
Seed, public, spring...do....	18, 960	17, 475	4, 138, 216	2, 421, 382	169, 800	53, 370	4, 326, 976	2, 492, 227
Seed, public, fall......do....	13, 745	13, 460	18, 401	9, 959	16, 750	4, 501	48, 896	27, 920
Seed, private, spring..do....	105, 554	130, 006	97, 632	42, 044	--------	--------	203, 186	172, 050
Seed, private, fall.....do....	407, 801	381, 550	889	300	--------	--------	408, 690	381, 850
Scallops:								
Bay.........do....	66, 118	115, 274	--------	--------	--------	--------	66, 118	115, 274
Sea.........do....	223, 077	230, 746	27, 350	33, 342	--------	--------	250, 427	264, 088

Industries related to the fisheries of the Middle Atlantic States, 1930

Item	New York	New Jersey	Pennsylvania	Delaware	Total
Transporting:					
Persons engaged—	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels..................	61	35	----------	5	101
On boats..................	----------	117	----------	----------	117
Total..................	61	152	----------	5	218
Vessels—					
Motor..................	24	10	----------	1	35
Net tonnage..................	357	159	----------	9	525
Boats..................	----------	176	----------	----------	176
Wholesale and manufacturing:					
Establishments..................	246	124	56	18	444
Persons engaged—					
Proprietors..................	257	165	86	23	531
Salaried employees..................	677	141	124	22	964
Wage earners:					
Average for season..................	1, 845	1, 536	540	330	4, 254
Average for year..................	1, 686	929	453	130	3, 198
Salaries and wages paid..................	$5, 420, 042	$1, 242, 574	$1, 163, 278	$130, 186	$7, 956, 080
Products [1]..................	$8, 987, 601	$3, 649, 260	$2, 027, 205	$757, 259	$15, 421, 325
Fishermen's manufactured products:					
Persons engaged..................	504	49	----------	39	592
Products..................	$412, 162	$40, 847	----------	$7, 104	$460, 113

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[1] These production figures are not comparable with those shown in previous bulletins since packaged fresh and frozen fishery products are now included.

NOTE.—Of the total number of persons employed on transporting craft, 124 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 545 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

NEW YORK

Fisheries of New York, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines	Gill nets			
	Menhaden	Other		Anchor	Drift	Run-around	Stake
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	67	12		2	37	16	
On boats and shore—							
Regular			151	36	18	45	40
Casual			186	33	203	6	71
Total	67	12	337	71	258	67	111
Vessels:							
Motor—							
5 to 10 tons				1		5	
11 to 20 tons	3				1	1	
21 to 30 tons	1	1			1		
41 to 50 tons					1		
61 to 70 tons					1		
Total	4	1		1	4	6	
Net tonnage	67	29		7	142	51	
Boats:							
Motor			16	15	20	25	11
Other			133	18	97	10	83
Accessory boats	7	2			16	1	
Apparatus:							
Number	4	1	141	198	581	40	110
Length, yards	1, 340	400	20, 503				
Square yards				34, 387	450, 986	71, 620	35, 819

Item	Lines				Pound nets	Floating traps	Stop nets
	Hand	Trawl	Trot, with hooks	Troll			
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	20	91			6		
On boats and shore—							
Regular	37	134	2	7	142	10	7
Casual	16	7	16	2	12		27
Total	73	232	18	9	160	10	34
Vessels:							
Motor—							
5 to 10 tons	4	12			3		
11 to 20 tons		4					
21 to 30 tons	1	1					
41 to 50 tons		1					
51 to 60 tons		1					
Total	5	19			3		
Net tonnage	53	264			18		
Boats:							
Motor	41	55		5	49	2	3
Other	12	9	15		120	5	19
Accessory boats		50					
Apparatus:							
Number	90	1, 897	15	20	418	9	18
Square yards							13, 170
Hooks, baits, or snoods	128	279, 225	2, 640	20			

Fisheries of New York, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Fyke nets	Dip nets	Scap nets	Drag nets	Push nets	Otter trawls		
						Fish	Scal-lop	Shrimp
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	9	--------	--------	2	--------	154	3	4
On boats and shore—								
Regular	87	52	4	16	25	97	--------	--------
Casual	74	13	154	2	4	14	--------	--------
Total	170	65	158	20	29	265	3	4
Vessels:								
Motor—								
5 to 10 tons	5	--------	--------	1	--------	35	--------	--------
11 to 20 tons	--------	--------	--------	--------	--------	10	1	1
21 to 30 tons	--------	--------	--------	--------	--------	3	--------	--------
61 to 70 tons	--------	--------	--------	--------	--------	1	--------	--------
Total	5	--------	--------	1	--------	49	1	1
Net tonnage	35	--------	--------	10	--------	555	13	12
Sail—21 to 30 tons	--------	--------	--------	--------	--------	1	--------	--------
Net tonnage	--------	--------	--------	--------	--------	27	--------	--------
Total vessels	5	--------	--------	1	--------	50	1	1
Total net tonnage	35	--------	--------	10	--------	582	13	12
Boats:								
Motor	32	4	--------	2	--------	64	--------	--------
Other	103	52	96	12	24	2	--------	--------
Accessory boats	2	--------	--------	--------	--------	--------	--------	--------
Apparatus:								
Number	2,412	65	158	18	29	114	1	1
Yards at mouth	--------	--------	--------	32	--------	2,887	12	30

Item	Pots			Har-poons	Spears	Dredges	
	Crab	Eel	Lobster			Clam	Mussel
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	4	9	33	--------	14	18
On boats and shore—							
Regular	4	109	167	26	82	9	--------
Casual	2	34	22	--------	57	3	--------
Total	6	147	198	59	139	26	18
Vessels:							
Motor—							
5 to 10 tons	--------	2	6	4	--------	6	--------
11 to 20 tons	--------	--------	--------	--------	--------	1	3
21 to 30 tons	--------	--------	--------	1	--------	--------	1
61 to 70 tons	--------	--------	--------	1	--------	--------	--------
Total	--------	2	6	6	--------	7	4
Net tonnage	--------	16	42	115	--------	55	64
Sail—21 to 30 tons	--------	--------	--------	1	--------	--------	--------
Net tonnage	--------	--------	--------	27	--------	--------	--------
Total vessels	--------	2	6	7	--------	7	4
Total net tonnage	--------	16	42	142	--------	55	64
Boats:							
Motor	2	46	126	13	2	8	--------
Other	2	82	2	12	121	--------	--------
Accessory boats	--------	--------	--------	6	--------	--------	--------
Apparatus:							
Number	54	4,391	17,841	21	139	16	8
Yards at mouth	--------	--------	--------	--------	--------	16	10

Fisheries of New York, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Dredges—Contd.		Tongs	Rakes	Forks	By hand	Total, exclusive of duplication
	Oyster	Scallop					
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	221	152	57	2			707
On boats and shore—							
Regular	8	203	445	311	283	83	1, 236
Casual	2	152	112	141	176	37	1, 157
Total	231	507	614	454	459	120	3, 100
Vessels:							
Steam—31 to 40 tons	1						1
Net tonnage	36						36
Motor—							
5 to 10 tons	14	19	26	1			94
11 to 20 tons	17	13					44
21 to 30 tons	12	3					21
31 to 40 tons	2						2
41 to 50 tons	2						4
51 to 60 tons	1						2
61 to 70 tons							1
Total	48	35	26	1			168
Net tonnage	882	407	164	6			2, 275
Sail—							
5 to 10 tons		7	1				8
11 to 20 tons		1					1
21 to 30 tons							1
Total		8	1				10
Net tonnage		55	6				88
Total vessels	49	43	27	1			179
Total net tonnage	918	462	170	6			2, 399
Boats:							
Motor	4	30	182	155			562
Other		158	306	270	39	1	1, 080
Accessory boats							79
Apparatus:							
Number	105	1, 210	605	455	456		
Yards at mouth	144	1, 196					

CATCH: BY GEAR

Species	Purse seines				Haul seines		Gill nets—Anchor	
	Menhaden		Other					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					470, 336	$6, 279		
Bluefish					6, 030	1, 054	41, 572	$6, 217
Carp					69, 168	9, 649	400	56
Catfish and bullheads					2, 286	440	20	3
Cod					3, 850	105		
Eels					107, 430	2, 985		
Flounders					5, 300	530		
Menhaden	4, 475, 640	$18, 183						
Minnows					147, 494	4, 368		
Mummichog					86, 620	6, 922		
Pike or pickerel					400	54		
Scup or porgy			500, 000	$7, 500				
Sea robin							400	10
Shad					1, 148	223		
Silversides					260, 370	12, 391		
Smelt					2, 500	750	50	20
Squeteagues or "sea trout," gray			200, 000	5, 000	33, 350	5, 283	84, 247	11, 563
Striped bass					41, 380	8, 548	2, 011	497
Sturgeon					75	15	599	135
Suckers					10, 087	1, 017	875	90
Sunfish					661	72		
Whitebait					95, 800	7, 140		
White perch					3, 170	664	2, 849	282
Yellow perch					250	35		
Shrimp					400	60		
Total	4, 475, 640	18, 183	700, 000	12, 500	1, 348, 105	68, 584	133, 023	18, 873

Fisheries of New York, 1930—Continued

CATCH: BY GEAR—Continued

Species	Gill nets—Continued						Lines—Hand	
	Drift		Runaround		Stake			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	10,800	$226			400	$24		
Bluefish	6,050	825	292,580	$25,112	1,900	130	178,020	$17,948
Butterfish			5,000	448				
Carp	1,426	225			8,059	1,158		
Cod							152,617	6,730
Flounders							30,450	522
Hake							9,000	110
Mackerel	195,460	6,088					8,500	510
Pollock							91,575	2,498
Scup or porgy					150	5	15,400	1,016
Sea bass							102,350	11,795
Shad	148,372	24,168			17,173	3,763		
Squeteagues or "sea trout," gray	550	75	103,285	8,604	16,800	775	27,880	2,705
Striped bass			1,000	120	344	114	7,400	615
Sturgeon	1,211	401			225	59		
Suckers					755	85		
Tautog							26,100	1,980
Tuna or "horse mackerel"	220	15						
White perch					1,483	155		
Total	364,089	32,023	401,865	34,284	47,289	6,268	649,292	46,429

Species	Lines—Continued						Pound nets	
	Trawl		Trot, with hooks		Troll			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Albacore							59,900	$2,050
Alewives							89,950	1,041
Bluefish					4,980	$542	289,748	25,814
Bonito							186,589	13,733
Butterfish							689,105	53,129
Carp			325	$47				
Catfish and bullheads			64	13				
Cod	1,621,294	$59,097					37,159	1,652
Eels	11,500	1,495	5,572	1,108			175,410	23,326
Flounders	300	30					263,892	10,431
Grayfish	1,250	38						
Haddock	31,895	1,254						
Hake	23,112	679						
Herring, sea							32,456	674
King whiting or "kingfish"							13,976	1,817
Mackerel							239,300	13,022
Menhaden							124,000	1,240
Scup or porgy							391,445	19,928
Sea bass							48,886	4,753
Sea robin							11,139	243
Shad							283	48
Sharks							450	23
Skates	24,350	241					150	2
Spot							3,878	309
Squeteagues or "sea trout," gray							471,227	33,036
Striped bass							13,893	1,380
Tautog							38,035	3,037
Tilefish	2,312,200	88,415						
Tuna or "horse mackerel"							19,380	2,286
White perch							750	25
Whiting							337,940	10,140
Crabs, hard							7,334	880
Squid							473,597	19,947
Total	4,025,901	151,249	5,961	1,168	4,980	542	4,019,872	243,966

Fisheries of New York, 1930—Continued

CATCH: BY GEAR—Continued

Species	Floating traps		Stop nets		Fyke nets		Dip nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			234	$7	19, 067	$250		
Butterfish	45, 686	$4, 569						
Carp			44, 450	6, 189	7, 663	871		
Catfish and bullheads			1, 800	225	12, 791	2, 300		
Cod	496	27						
Eels					3, 860	614		
Flounders	137, 850	8, 960			1, 387, 440	26, 528		
Hake	526	26						
King whiting or "kingfish"	45	4						
Mackerel	21, 475	1, 123						
Pike or pickerel			53	5	90	21		
Pollock	3, 520	70						
Scup or porgy	31, 561	1, 262						
Sea bass	35, 777	2, 503						
Sea robin	3, 115	62						
Shad			60	9				
Skates	3, 013	90						
Smelt							200	$10
Squeteagues or "sea trout," gray	509	74						
Striped bass			200	60	12	1		
Suckers			3, 261	383	21, 617	2, 361		
Sunfish			37	2	1, 065	109		
Tautog	1, 157	57			7, 900	766		
Tomcod					120, 678	4, 799		
White perch					10, 356	1, 779		
Whiting	11, 327	227						
Yellow perch					3, 931	463		
Crabs:								
Hard					36, 975	1, 110	43, 100	3, 774
Soft							5, 576	1, 704
Shrimp							510	50
Squid	60, 387	1, 810						
Scallops, bay							11, 130	2, 340
Total	356, 444	20, 864	50, 095	6, 880	1, 633, 445	41, 972	60, 516	7, 878

Species	Scap nets		Drag nets		Push nets		Otter trawls			
							Fish		Scallop	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	40, 907	$2, 226								
Bluefish							200	$15		
Butterfish							3, 000	299		
Carp	38, 959	4, 676								
Catfish and bullheads	577	90								
Cod							986, 890	27, 609		
Croaker							325, 000	8, 125		
Eels	117	22								
Flounders							4, 667, 957	168. 341		
Haddock							2, 535, 760	75. 583		
Hake							110, 117	1, 631		
Halibut							4, 895	968		
Minnows	200	70								
Mummichog					40	$4				
Pike or pickerel	162	28								
Pollock							16, 335	219		
Rosefish							1, 375	41		
Scup or porgy							151, 025	1, 546		
Sea bass							31, 688	1, 756		
Shad	126	56								
Silversides					40	4				
Smelt	350	88								
Squeteagues or "sea trout," gray							1, 520	50		
Striped bass							200	9		
Suckers	7, 757	1, 118								
Sunfish	265	28								
Tautog							8, 985	356		
Tomcod	127	19								
White perch	2, 183	165								
Wolfish							6, 425	113		
Yellow perch	884	107								
Crabs, hard			67, 500	$2, 025						
Lobsters							400	120		
Shrimp			49, 600	12, 400	20	8				
Clams, soft, private							192	12		
Conchs							1, 710	152		
Scallops:										
Bay					23, 580	4, 840				
Sea			7, 902	1, 756					13, 500	$1, 875
Total	92, 614	8, 693	125, 002	16, 181	23, 680	4, 856	8, 853, 674	286, 945	13, 500	1, 875

Fisheries of New York, 1930—Continued

CATCH: BY GEAR—Continued

Species	Otter trawls—Shrimp		Pots						Harpoons	
			Crab		Eel		Lobster			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels					267, 664	$36, 921				
Flounders					1, 400	262				
Mummichog					23, 495	2, 241				
Sea bass							101, 050	$3, 661		
Swordfish									234, 140	$37, 887
Crabs:										
Hard			5, 685	$753			3, 650	165		
Rock					640	80				
Lobsters							535, 991	136, 572		
Shrimp	45, 000	$1, 800								
Total	45, 000	1, 800	5, 685	753	293, 199	39, 504	640, 691	140, 398	234, 140	37, 887

Species	Spears		Dredges							
			Clam		Mussel		Oyster		Scallop	
	Lbs.	*Value*	*Lbs.*	*Value*	*Lbs.*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels	65, 924	$10, 907								
Flounders	5, 315	710								
Clams:										
Hard, private							1, 200	$500		
Surf or skimmers			224, 950	$18, 340						
Conchs									33, 516	$2, 793
Mussels					235, 400	$10, 762	21, 600	648		
Oysters:										
Market, private, spring							4, 703, 979	1, 111, 178		
Market, private, fall							4, 456, 998	1, 030, 107		
Seed, public, fall							4, 200	450		
Seed, private, spring							738, 878	130, 006		
Seed, private, fall							2, 854, 610	381, 550		
Scallops:										
Bay									357, 633	106, 763
Sea									1, 317, 060	227, 115
Total	71, 239	11, 617	224, 950	18, 340	235, 400	10, 762	12, 781, 465	2, 654, 439	1, 708, 209	336, 671

Species	Tongs		Rakes		Forks		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, hard	200	$2	700	$7				
Clams:								
Hard, public	382, 588	165, 015	371, 220	175, 191			39, 848	$18, 096
Hard, private	44, 980	17, 622						
Razor					3, 080	$756		
Soft, public			137, 250	13, 088	364, 725	57, 360		
Surf or skimmers	66, 320	16, 299						
Mussels	6, 500	325					8, 000	250
Oysters:								
Market, public, spring	8, 767	2, 166						
Market, public, fall	7, 521	1, 858						
Market, private, spring	37, 800	12, 100						
Market, private, fall	48, 160	15, 556						
Seed, public, spring	62, 720	8, 975	70, 000	8, 500				
Seed, public, fall	67, 515	9, 675	12, 600	1, 700			11, 900	1, 635
Scallops, bay			2, 268	689			2, 100	642
Bloodworms					54, 404	62, 588		
Sandworms					58, 420	61, 170		
Total	733, 071	249, 593	594, 038	199, 175	480, 629	181, 874	61, 848	20, 623

Fisheries of New York, 1930—Continued

OPERATING UNITS: BY COUNTIES

Item	Albany	Bronx	Columbia	Dutchess	Greene	Kings	Nassau	New York	Orange
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:									
On vessels						148	46	130	
On boats and shore—									
Regular			2	2	2	187	215		2
Casual	10	2	32	104	35	109	137		41
Total	10	2	34	106	37	444	398	130	43
Vessels:									
Motor—									
5 to 10 tons						22	3	4	
11 to 20 tons						8	6	6	
21 to 30 tons						5	2	5	
31 to 40 tons								1	
41 to 50 tons								2	
51 to 60 tons								1	
61 to 70 tons								1	
Total						35	11	20	
Net tonnage						403	164	489	
Sail—21 to 30 tons						1			
Net tonnage						27			
Total vessels						36	11	20	
Total net tonnage						430	164	489	
Boats:									
Motor				6		91	34		1
Other	7	2	19	44	27	8	205		21
Accessory boats						6	1	57	
Apparatus:									
Purse seines—									
Other						1			
Length, yards						400			
Haul seines	2		6	5	7	5	18		10
Length, yards	216		602	631	707	65	996		1, 220
Gill nets—									
Drift			1	31	1		50	420	9
Square yards			2, 000	96, 670	1, 050		40, 400	75, 600	26, 988
Runaround							18		
Square yards							37, 700		
Stake				1	1				
Square yards				800	66				
Lines—									
Hand						38		6	
Hooks						66		12	
Trawl						68	23	40	
Hooks						79, 000	48, 425	60, 900	
Trot, with hooks				3					1
Hooks				710					150
Troll						16			
Hooks						16			
Pound nets							4		
Stop nets			2	2	3				1
Square yards			1, 525	2, 017	3, 464				498
Fyke nets	22		33	55	37				52
Dip nets							22		
Scap nets	5		12	35	16				12
Drag nets							3		
Yards at mouth							5		
Push nets							1		
Otter trawls—									
Fish						30	4	4	
Yards at mouth						649	87	125	
Shrimp							1		
Yards at mouth							30		
Pots—									
Crab						36			
Eel				3		112	440		15
Lobster						6, 933	3, 655		
Harpoons						1		2	
Spears						11	55		
Dredges—									
Clam						15			
Yards at mouth						15			
Mussel							6		
Yards at mouth							7		
Oyster							17	18	
Yards at mouth							20	27	
Scallop						30	6	4	
Yards at mouth						82	16	11	
Tongs		2					182		
Rakes							70		
Forks						125	143		

Fisheries of New York, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Putnam	Queens	Rensselaer	Richmond	Rockland	Saratoga	Suffolk	Ulster	Westchester
ishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels		2		2			376		3
On boats and shore—									
Regular				6			809	4	7
Casual	1	2	18	6	44	3	409	146	58
Total	1	4	18	14	44	3	1, 594	150	68
essels:									
Steam—31 to 40 tons							1		
Net tonnage							36		
Motor—									
5 to 10 tons				1			63		1
11 to 20 tons		1					23		
21 to 30 tons							9		
31 to 40 tons							1		
41 to 50 tons							2		
51 to 60 tons							1		
Total		1		1			99		1
Net tonnage		16		7			1, 188		8
Sail—									
5 to 10 tons							8		
11 to 20 tons							1		
Total							9		
Net tonnage							61		
Total vessels		1		1			109		1
Total net tonnage		16		7			1, 285		8
oats:									
Motor				8	4		410	4	4
Other	1	1	15		21	3	597	78	31
ccessory boats							15		
pparatus:									
Purse seines—									
Menhaden							4		
Length, yards							1, 340		
Haul seines		1	3	1	3		69	5	6
Length, yards		100	534	5	600		13, 486	542	799
Gill nets—									
Anchor					27		38	10	123
Square yards					460		32, 129	100	1, 698
Drift					7		4	47	11
Square yards					21, 010		7, 200	137, 536	42, 532
Runaround							22		
Square yards							33, 920		
Stake					10		67	18	13
Square yards					5, 843		13, 280	2, 887	12, 943
Lines—									
Hand							46		
Hooks							50		
Trawl							1, 766		
Hooks							90, 900		
Trot, with hooks	1		1		4			4	1
Hooks	150		60		760			510	300
Troll							4		
Hooks							4		
Pound nets							414		
Floating traps							9		
Stop nets	1							8	1
Square yards	66							5, 201	399
Fyke nets			23		2		2, 089	66	33
Dip nets							43		
Scap nets			12		1	3		61	1
Drag nets							15		
Yards at mouth							27		
Push nets							28		
Otter trawls—									
Fish		1		1			74		
Yards at mouth		30		19			1, 977		
Scallop							1		
Yards at mouth							12		
Pots—									
Crab					18				
Eel	2				35		3, 718	8	58
Lobster				1, 150			6, 085		18

Fisheries of New York, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Put-nam	Queens	Rens-selaer	Rich-mond	Rock-land	Sara-toga	Suffolk	Ulster	West chester
Apparatus—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Harpoons							17		1
Spears							72		1
Dredges—									
Clam				1					
Yards at mouth				1					
Mussel							2		
Yards at mouth							3		
Oyster							70		
Yards at mouth							97		
Scallop				2			1, 168		
Yards at mouth				4			1, 083		
Tongs							418		3
Rakes							384		1
Forks				4			184		

CATCH: BY COUNTIES

Species	Albany		Bronx		Columbia		Dutchess		Greene	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	3, 500	$145			33, 560	$1, 135	9, 510	$585	8, 935	$404
Carp	3, 880	392			26, 220	3, 104	9, 507	1, 223	20, 641	2, 798
Catfish and bullheads	150	23			3, 371	625	1, 880	409	6, 026	862
Eels					200	40	3, 844	737	100	13
Minnows									100	20
Pike or pickerel	495	70					15	4		
Shad					947	120	49, 164	8, 506	230	59
Striped bass							282	56		
Sturgeon							700	210		
Suckers	3, 190	291			8, 608	872	2, 937	398	1, 461	154
Sunfish					20	2	660	72		
Tomcod					100	15				
White perch							408	47		
Yellow perch					3, 085	339	584	103	186	24
Clams, hard, public			160	$120						
Total	11, 215	921	160	120	76, 111	6, 252	79, 491	12, 350	37, 679	4, 334

Species	Kings		Nassau		New York		Orange	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives							2, 130	$131
Bluefish	156, 360	$14, 269	137, 835	$9, 663				
Butterfish			5, 000	448	3, 000	$299		
Carp							15, 858	2, 208
Catfish and bullheads							1, 327	272
Cod	972, 975	31, 526	309, 735	10, 488	449, 820	11, 203		
Croaker	325, 000	8, 125						
Eels	17, 600	2, 288	45, 980	7, 578			1, 957	375
Flounders	695, 750	23, 274	141, 950	6, 852	370, 177	12, 160		
Haddock	661, 150	20, 655			1, 677, 030	46, 295		
Hake	64, 650	963	770	21	55, 117	721		
Halibut	1, 700	340			3, 195	628		
Mackerel			43, 350	1, 018	152, 110	5, 070		
Minnows							194	68
Mummichog	26, 100	3, 905	23, 855	2, 244				
Pollock					16, 335	219		
Rosefish					1, 375	41		
Scup or porgy	656, 500	9, 325	250	15				
Sea bass	46, 500	3, 430	98, 550	3, 355	550	55		
Shad							9, 328	2, 02
Silversides	1, 050	63	20, 035	2, 807				
Skates			600	3				
Squeteagues or "sea trout," gray	201, 000	5, 018	26, 250	1, 601				
Striped bass			7, 600	1, 900			235	4
Suckers							8, 575	1, 09

Fisheries of New York, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Kings		Nassau		New York		Orange	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Swordfish	44, 610	$7, 969			90, 080	$16, 061		
Tautog	22, 500	1, 575			600	60		
Tilefish	346, 900	19, 103			1, 965, 300	69, 312		
Tuna or "horse mackerel"					220	15		
White perch							570	$72
Wolffish					6, 425	113		
Crabs:								
Hard	3, 685	503	3, 400	$129				
Rock			640	80				
Soft			2, 480	930				
Lobsters	295, 850	68, 020	52, 400	16, 487				
Shrimp			46, 120	2, 083				
Clams:								
Hard, public			195, 944	85, 609				
Hard, private			400	200				
Razor			3, 080	756				
Soft, public	17, 700	2, 360	139, 350	23, 000				
Soft, private	192	12						
Surf or skimmers	203, 350	16, 315	9, 000	1, 969				
Conchs	25, 650	2, 147						
Mussels	8. 000	250	197, 500	8, 435				
Oysters:								
Market, public, fall			14	4				
Market, private, spring			431, 900	114, 450	721, 497	103, 057		
Market, private, fall			393, 792	91, 901	744, 198	106, 314		
Seed, public, fall			7, 700	825				
Seed, private, spring					14, 000	2, 000		
Seed, private, fall			550, 000	60, 000	2, 187, 010	303, 000		
Scallops:								
Bay			6, 048	1, 833				
Sea	805, 434	145, 343	153, 000	25, 500	82, 500	13, 800		
Bloodworms	28, 110	29, 454	14, 839	18, 096				
Sandworms	28, 110	29, 454	3, 708	3, 798				
Total	5, 656, 426	445, 686	3, 073, 075	504, 078	8, 540, 539	690, 423	40, 174	6, 289

Species	Putnam		Queens		Rennselaer		Richmond		Rockland	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives					4, 452	$182			12	$1
Carp	210	$31	100	$12	10, 242	1, 168			7, 100	790
Catfish and bullheads					1, 989	364			69	13
Eels	495	86			631	158			2, 376	281
Flounders			90, 000	1, 350			36, 547	$1, 462		
Minnows					100	50				
Mummichog							1, 500	300		
Pike or pickerel	53	5			52	8				
Shad					55	15			6, 234	1, 391
Striped bass									820	219
Sturgeon									71	17
Suckers					2, 731	292			2, 125	212
Sunfish					179	18				
White perch									1, 016	123
Yellow perch					5	1				
Crabs: Hard							3, 650	165	2, 000	250
Lobsters							22, 000	5, 505		
Clams, surf or skimmers							21, 600	2, 025		
Conchs							9, 576	798		
Sandworms							300	300		
Total	758	122	90, 100	1, 362	20, 436	2, 256	95, 173	10, 555	21, 823	3, 297

Fisheries of New York, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Saratoga		Suffolk		Ulster		Westchester	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Valu
Albacore			59, 900	$2, 050				
Alewives			540, 450	6, 266	28, 690	$1, 179	455	$2
Bluefish			526, 885	53, 725				
Bonito			186, 589	13, 733				
Butterfish			734, 791	57, 698				
Carp	1, 290	$153	20, 250	3, 225	45, 178	6, 455	9, 974	1, 31
Catfish and bullheads	50	5			1, 223	264	1, 453	23
Cod			1, 069, 776	42, 003				
Eels			551, 063	64, 298	966	153	12, 265	1, 37
Flounders			5, 165, 480	171, 216				
Grayfish			1, 250	38				
Haddock			229, 475	9, 887				
Hake			22, 218	741				
Herring, sea			32, 456	674				
King whiting or "kingfish"			14, 021	1, 821				
Mackerel			269, 275	14, 655				
Menhaden			4, 599, 640	19, 423				
Minnows			147, 000	4, 200	300	100		
Mummichog			58, 700	2, 718				
Pike or pickerel					50	10	40	1
Pollock			95, 095	2, 568				
Scup or porgy			432, 831	21, 917				
Sea bass			174, 151	17, 628				
Sea robin			14, 654	315				
Shad			2, 158	579	77, 831	11, 231	21, 215	4, 34
Sharks			450	23				
Silversides			239, 325	9, 525				
Skates			26, 913	330				
Smelt			2, 750	780	350	88		
Spot			3, 878	309				
Squeteagues or "sea trout," gray			712, 118	60, 546				
Striped bass			56, 593	8, 878			910	24
Sturgeon					511	191	828	19
Suckers	1, 175	135			6, 710	774	6, 840	83
Sunfish					747	68	422	5
Swordfish			91, 450	12, 950			8, 000	90
Tautog			59, 077	4, 561				
Tomcod			120, 050	4, 751	155	17	500	3
Tuna or "horse mackerel"			19, 380	2, 286				
Whitebait			95, 800	7, 140				
White perch			12, 000	2, 220	2, 457	186	4, 340	42
Whiting			349, 267	10, 367				
Yellow perch					1, 205	138		
Crabs:								
Hard			152, 409	7, 669				
Soft			3, 096	774				
Lobsters			165, 916	46, 590			225	9
Shrimp			49, 410	12, 235				
Squid			533, 984	21, 757				
Clams:								
Hard, public			591, 408	269, 743			6, 144	2, 83
Hard, private			45, 780	17, 922				
Soft, public			344, 925	45, 088				
Surf or skimmers			57, 320	14, 330				
Mussels			66, 000	3, 300				
Oysters:								
Market, public, spring			8, 767	2, 166				
Market, public, fall			7, 507	1, 854				
Market, private, spring			3, 588, 382	905, 771				
Market, private, fall			3, 367, 168	847, 448				
Seed, public, spring			132, 720	17, 475				
Seed, public, fall			88, 515	12, 635				
Seed, private, spring			724, 878	128, 006				
Seed, private, fall			117, 600	18, 550				
Scallops:								
Bay			390, 663	113, 441				
Sea			297, 528	46, 103				
Bloodworms			11, 455	15, 038				
Sandworms			26, 302	27, 618				
Total	2, 515	293	27, 508, 892	3, 211, 557	166, 373	20, 854	73, 611	12, 90

Industries related to the fisheries of New York, 1930

TRANSPORTING

Item	Nassau County	Suffolk County	Total
	Number	*Number*	*Number*
Persons engaged on vessels	15	46	61
Vessels, motor—			
5 to 10 tons	1	13	14
11 to 20 tons	1	2	3
21 to 30 tons		3	3
31 to 40 tons	2	2	4
Total	4	20	24
Net tonnage	93	264	357

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Albany, Dutchess, and Orange Counties	Bronx County	Kings and Queens Counties	Nassau County	New York County	Suffolk County	Total
Establishments	5	4	22	11	178	26	246
Persons engaged:							
Proprietors	4	6	23	13	187	24	257
Salaried employees	12	10	51	6	579	19	677
Wage earners—							
Average for season	125	34	152	40	1, 209	285	1, 845
Average for year	124	34	146	26	1, 159	197	1, 686
Paid to salaried employees	$45, 893	$62, 750	$203, 703	$9, 600	$2, 166, 945	$61, 930	$2, 550, 821
Paid to wage earners	85, 396	58, 660	254, 517	29, 420	2, 187, 755	253, 473	2, 869, 221
Total salaries and wages	131, 289	121, 410	458, 220	39, 020	4, 354, 700	315, 403	5, 420, 042

PRODUCTS MANUFACTURED

Item		Quantity	Value
Buffalofish, smoked	pounds	742, 452	$312, 043
Butterfish, smoked	do	565, 548	168, 355
Chubs, smoked	do	1, 096, 923	374, 444
Ciscoes, smoked	do	1, 133, 405	445, 501
Cod, fresh fillets	do	1, 842, 400	297, 591
Eels, smoked	do	2, 531	868
Flounders, fresh fillets	do	254, 000	58, 170
Haddock:			
Fresh fillets	do	3, 103, 463	535, 925
Smoked fillets	do	106, 500	24, 300
Finnan haddie	do	755, 500	93, 622
Hake, fresh fillets	do	147, 000	19, 777
Herring, sea, smoked	do	176, 951	33, 949
Lake trout, smoked	do	48, 683	15, 183
Mackerel, smoked	do	133, 181	22, 988
Salmon, smoked	do	5, 081, 491	1, 918, 417
Shad, smoked	do	61, 859	12, 444
Sturgeon:			
Smoked	do	1, 846, 724	1, 386, 646
Caviar, canned	standard cases	7, 993	1, 002, 945
Tullibee, smoked	pounds	763, 760	217, 857
Whitefish:			
Smoked	do	150, 719	47, 540
Caviar, canned	standard cases	373	14, 154
Marine-shell products:			
Buttons	gross	748, 718	626, 874
Novelties		(1)	131, 184
Oysters, fresh-shucked	gallons	252, 192	661, 816

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[1] Data not available.

Industries related to the fisheries of New York, 1930—Continued

WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED—Continued

Item	Quantity	Value
Unclassified products:		
Smoked [2] ... pounds	42, 500	$9, 750
Canned [3]	(1)	174, 113
Miscellaneous [4]	(1)	381, 145
Total		8, 987, 601

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 504]

Item	Quantity	Value
Scallops, bay, fresh-shucked ... gallons	39, 501	$129, 633
Scallops, sea, fresh-shucked ... do	140, 677	282, 529
Total ... do	180, 178	412, 162

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[1] Data not available.

[2] Includes smoked cod fillets, and kippered herring.

[3] Includes canned salmon roe and caviar; canned spiced and soused salmon; canned pickled and smoked eels; canned pickled mussels; canned turtle soup and meat; canned terrapin meat and stew; and canned hard-clam products.

[4] Includes fresh pollock fillets; shucked scallops; fish meal; and fresh-water mussel-shell buttons.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 457 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

NEW JERSEY

Fisheries of New Jersey, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines	Gill nets				Lines	
	Menhaden	Other		Anchor	Drift	Run-around	Stake	Hand	Trawl
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	21	137			22			38	70
On boats and shore—									
Regular			74	4	122	129	41	193	280
Casual			170	6	174	19	70	85	53
Total	21	137	244	10	318	148	111	316	403
Vessels:									
Motor—									
5 to 10 tons		2			3			1	3
11 to 20 tons		10			2			6	12
21 to 30 tons		3						1	
61 to 70 tons	1								
Total	1	15			5			8	15
Net tonnage	70	236			51			114	172
Boats:									
Motor			20	4	121	70	35	165	159
Other			82	2	58		29	13	
Accessory boats	2	21			3		14	12	
Apparatus:									
Number	1	15	102	5	862	90	1, 340	555	824
Length, yards	456	5, 880	11, 898						
Square yards				5, 940	658, 830	405, 674	161, 823		
Hooks, baits, or snoods								793	503, 450

Fisheries of New Jersey, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Lines—Contd.		Pound nets	Weirs	Stop nets	Fyke nets	Dip nets	Cast nets	Drag nets
	Troll	Trot, with baits or snoods							
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	5		253						
On boats and shore—									
Regular	70	4	138	7	20	41	18		4
Casual	35	3	19	23	86	85	19	4	2
Total	110	7	410	30	106	126	37	4	6
Vessels:									
Motor—									
5 to 10 tons			38						
11 to 20 tons	1								
Total	1		38						
Net tonnage	11		230						
Boats:									
Motor	81	3	23	4	9	32	10		3
Other		1	1	16	50	50	23	1	
Accessory boats			12						
Apparatus:									
Number	304	4	181	83	60	1,772	36	4	6
Square yards					34,704				
Yards at mouth									17
Hooks, baits, or snoods	316	1,775							

Item	Otter trawls		Pots			Spears	Dredges	
	Fish	Shrimp	Crab	Eel	Lobster		Clam	Crab
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	141	11					180	17
On boats and shore—								
Regular	50			76	257	43	10	
Casual	1		1	41	20	17	2	1
Total	192	11	1	117	277	60	192	18
Vessels:								
Motor—								
5 to 10 tons	12	2					5	5
11 to 20 tons	16	1					12	2
21 to 30 tons	1						2	
31 to 40 tons	2							
41 to 50 tons	1						1	
51 to 60 tons	1							
61 to 70 tons	1							
71 to 80 tons	1							
Total	35	3					20	7
Net tonnage	640	27					310	69
Boats:								
Motor	21			64	156	8	6	1
Other				26		51		
Accessory boats				6				
Apparatus:								
Number	61	3	4	5,299	33,920	60	56	53
Yards at mouth	1,331	72					62	59

Fisheries of New Jersey, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Dredges—Con.		Tongs	Rakes	Forks	Hoes	Gaffs	By hand	Total, exclusive of duplication
	Oyster	Scallop							
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	2, 687	41							3, 292
On boats and shore—									
Regular	19		551	488	15	46	8	88	1, 747
Casual	6		326	211	3	30	24	76	1, 177
Total	2, 712	41	877	699	18	76	32	164	6, 216
Vessels:									
Motor—									
5 to 10 tons	43	2							106
11 to 20 tons	93								128
21 to 30 tons	23	1							28
31 to 40 tons	8								10
41 to 50 tons	4								5
51 to 60 tons	4	1							5
61 to 70 tons	1								2
71 to 80 tons	1								2
Total	177	4							286
Net tonnage	3, 096	96							4, 434
Sail—									
5 to 10 tons	18								18
11 to 20 tons	20								20
21 to 30 tons	15								15
31 to 40 tons	8								8
41 to 50 tons	5								5
51 to 60 tons	4								4
61 to 70 tons	5								5
71 to 80 tons	1								1
91 to 100 tons	1								1
Total	77								77
Net tonnage	2, 085								2, 085
Total vessels	254	4							363
Total net tonnage	5, 181	96							6, 519
Boats:									
Motor	16		521	416	4	12		37	1, 379
Other			318	254	17	58	1	84	750
Accessory boats			37	14					121
Apparatus:									
Number	537	9	868	667	19	74	32		
Yards at mouth	634	29							

CATCH: BY GEAR

Species	Purse seines				Haul seines		Gill nets	
	Menhaden		Other				Anchor	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Albacore			50	$3				
Alewives					40, 986	$878		
Bluefish			322, 457	33, 951	1, 062	190	950	$122
Bonito			908	81				
Butterfish			15, 670	1, 248				
Carp					25, 601	2, 938		
Catfish and bullheads					11, 340	988		
Cod			4, 860	59				
Croaker			132, 340	2, 976	44, 889	1, 633		
Eels					1, 050	113		
Flounders			372	21	48, 900	4, 138		
Herring, sea					1, 500	30		
King whiting or "kingfish"			20	2	1, 605	182		
Mackerel			160	13				
Menhaden	3, 663, 000	$19, 250	997, 285	8, 387			3, 510	27
Minnows					18, 000	220		

Fisheries of New Jersey, 1930—Continued

CATCH: BY GEAR—Continued

Species	Purse seines				Haul seines		Gill nets	
	Menhaden		Other				Anchor	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Mummichog					16,000	$200		
Scup			3,343,693	$63,223				
Sea bass			251,145	5,213				
Shad					10,748	3,811	156	$46
Spanish mackerel			778	54				
Spot					4,852	273		
Squeteague or "sea trout," gray			2,239,720	56,381	71,885	5,879	450	26
Striped bass					7,803	2,025		
Sturgeon					128	51		
Suckers					23,397	2,290		
White perch					27,475	2,764		
Yellow perch					4,800	344		
Total	3,663,000	$19,250	7,309,458	171,612	362,021	28,947	5,066	221

Species	Gill nets—Continued						Lines	
	Drift		Runaround		Stake		Hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	3,648	$148			2,204	$62		
Bluefish	14,812	1,511	259,603	$21,374	25,689	3,866	1,425,052	$164,635
Bonito							114,752	5,239
Butterfish	27,102	2,219	2,520	402				
Carp	430	48					290	44
Catfish and bullheads					200	14		
Cero							20,000	2,000
Cod							136,642	3,347
Croaker	69,965	2,070	200	8	30	3	28,566	1,168
Dolphin							332	24
Eels							6,420	641
Flounders			8	1			32,665	2,206
Hake			462	5				
Herring, sea			14	1				
King whiting or "kingfish"	50	3			500	75	100	8
Mackerel	434,026	15,294	164,000	6,400				
Menhaden	20,000	200	22,065	243				
Pilotfish							414	17
Scup	2,350	61	1,000	40			71,010	1,416
Sea bass			2,500	75			270,934	7,403
Shad	144,419	27,159			44,829	6,469		
Skates							3,750	95
Snapper, red							4,000	400
Spanish mackerel							1,891	132
Spot	89,870	4,529	2,743	119	2,500	175	900	45
Squeteague or "sea trout," gray	223,900	9,711	189,604	7,787	9,406	905	77,392	3,529
Striped bass					5,784	1,547	16,820	817
Sturgeon	995	521						
Tautog							21,999	879
Tuna or "horse mackerel"							800	80
White perch					46,942	6,008		
Yellow perch					1,010	71		
Total	1,031,567	63,474	644,719	36,455	139,094	19,195	2,234,729	194,251

Fisheries of New Jersey, 1930—Continued

CATCH: BY GEAR—Continued

Species	Lines—Continued						Pound nets	
	Trawl		Troll		Trot, with baits or snoods			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Albacore							31, 064	$506
Bluefish			334, 677	$30, 822			576, 219	56, 064
Bonito							114, 586	7, 841
Butterfish							2, 340, 296	173, 985
Cod	6, 403, 463	$194, 515					935, 563	30, 815
Croaker							511, 972	20, 805
Cusk	6, 500	65					1, 900	19
Dolphin							800	16
Drum:								
Black							6, 784	126
Red or redfish							64, 666	11, 635
Eels							10, 278	1, 028
Flounders	8, 000	800					401, 303	29, 370
Goosefish							37, 892	1, 118
Grayfish							11, 440	229
Haddock	15	1					5, 782	204
Hagfish							7, 200	72
Hake	14, 000	440					205, 855	3, 510
Herring, sea							587, 533	5, 875
King whiting or "kingfish"							61, 148	6, 785
Mackerel							55, 742	3, 699
Menhaden							1, 208, 850	13, 226
Mullet							150	6
Pilotfish							2, 046	106
Pollock							2, 964	111
Scup							2, 733, 907	87, 513
Sea bass							1, 218, 246	61, 332
Sea robin							117, 747	1, 946
Shad							23, 559	3, 641
Sharks							175, 669	3, 699
Skates	31, 636	907					204, 905	3, 366
Spanish mackerel			250	13			12, 920	1, 297
Spot							437, 336	17, 340
Squeteague or "sea trout," gray							8, 054, 464	264, 131
Striped bass							5, 105	971
Sturgeon							280	200
Tautog							133, 650	4, 462
Thimble-eyod mackerel							35, 722	1, 115
Tuna or "horse mackerel"							36, 762	2, 393
White perch							2, 020	80
Whiting							3, 754, 942	59, 428
Crabs:								
Hard					15, 058	$1, 333		
King							1, 247, 000	11, 489
Soft					148	55		
Squid							1, 233, 326	32, 882
Turtles:								
Loggerhead							800	24
Snapper							1, 800	27
Total	6, 463, 614	196, 728	334, 927	30, 835	15, 206	1, 388	26, 612, 193	924, 487

Species	Weirs		Stop nets		Fyke nets		Dip nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			4, 284	$690	1, 413, 000	$14, 150		
Carp			71, 889	9, 716				
Catfish and bullheads			1, 190	111	23, 617	1, 848		
Croaker	1, 560	$60						
Eels					41, 312	5, 891		
Flounders	1, 500	105			157, 330	6, 897		
Herring, sea					70, 800	758		
Spot	1, 620	81						
Squeteague or "sea trout," gray	1, 880	94						
Striped bass					1, 350	401		
Suckers			3, 786	490	392	47		
White perch					68, 800	8, 250		
Yellow perch					173, 400	14, 218		
Crabs:								
Hard							23, 000	$1, 419
King	3, 967, 500	15, 903						
Soft							19, 016	7, 318
Turtles, snapper					1, 700	196		
Total	3, 974, 060	16, 243	81, 149	11, 007	1, 951, 701	52, 656	42, 016	8, 737

Fisheries of New Jersey, 1930—Continued

CATCH: BY GEAR—Continued

Species	Cast nets		Drag nets		Otter trawls			
					Fish		Shrimp	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish					1, 223	$127		
Butterfish					8, 233	755		
Carp	2, 222	$400						
Cod					298, 843	6, 933		
Croaker					650, 285	21, 770		
Drum:								
Black					120	9		
Red or redfish					258	21		
Eels					25	3		
Flounders					2, 276, 274	104, 312		
Grunts					150	6		
Hake					2, 430	47		
King whiting or "kingfish"					5, 800	483		
Mackerel					1, 800	36		
Menhaden					3, 300	17		
Mullet					190	16		
Scup					1, 412, 081	31, 013		
Sea bass					691, 991	19, 000		
Shad					3	1		
Sharks					800	96		
Skates					800	12		
Spot					2, 795	83		
Squeteague or "sea trout," gray					228, 991	9, 401		
Sturgeon					2, 805	1, 015		
Tautog					7, 507	218		
White perch					4, 119	124		
Whiting					9, 000	140		
Lobsters					2, 200	555		
Shrimp			21, 168	$5, 292	51, 700	2, 061	172, 658	$7, 132
Squid					6, 198	137		
Total	2, 222	400	21, 168	5, 292	5, 669, 921	198, 391	172, 658	7, 132

Species	Pots						Spears	
	Crab		Eel		Lobster			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels			323, 234	$32, 965	1, 050	$84	156, 380	$17, 883
Sea bass					1, 111, 333	41, 337		
Tautog					18, 810	556		
Crabs, hard	148	$6			9, 570	698		
Lobsters					1, 008, 379	229, 555		
Total	148	6	323, 234	32, 965	2, 149, 142	272, 230	156, 380	17, 883

Species	Dredges							
	Clam		Crab		Oyster		Scallop	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, hard			204, 280	$16, 851				
Clams:								
Hard, public	100, 592	$6, 469						
Hard, private	88, 590	16, 650			3, 552	$1, 475		
Surf or skimmer	131, 670	15, 281						
Oysters:								
Market, public, fall					1, 812	270		
Market, private, spring					3, 445, 557	540, 516		
Market, private, fall					7, 654, 070	1, 158, 462		
Seed, public, spring					18, 444, 424	2, 401, 056		
Seed, private, spring					186, 200	15, 630		
Scallops, sea							164, 100	$33, 342
Total	320, 852	38, 400	204, 280	16, 851	29, 735, 615	4, 117, 409	164, 100	33, 342

Fisheries of New Jersey, 1930—Continued

CATCH: BY GEAR—Continued

Species	Tongs		Rakes		Forks	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams:						
Hard, public	814, 856	$375, 155	575, 687	$235, 745		
Hard, private	4, 672	2, 083	54, 096	4, 850		
Soft, public			135, 787	18, 581	124, 831	$17, 205
Mussels	200	2				
Oysters:						
Market, public, spring	36, 166	5, 414	109	16		
Market, public, fall	112, 476	14, 709	218	34		
Market, private, spring	200, 160	44, 892	7, 564	1, 819		
Market, private, fall	333, 180	74, 782	18, 176	4, 533		
Seed, public, spring	138, 914	15, 378	38, 632	4, 948		
Seed, public, fall	82, 804	9, 959				
Seed, private, spring	106, 555	13, 636	123, 738	10, 860		
Seed, private, fall	4, 000	300				
Total	1, 833, 983	556, 310	954, 007	281, 386	124, 831	17, 205

Species	Hoes		Gaffs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs:						
King					1, 300	$156
Soft	86, 660	$7, 800				
Clams:						
Hard, public	6, 080	871			64, 341	29, 858
Soft, public	234, 679	32, 250			133, 331	19, 772
Mussels					4, 000	280
Oysters:						
Market, public, spring					1, 327	241
Market, public, fall					6, 720	1, 600
Market, private, spring					2, 890	725
Market, private, fall					4, 570	975
Seed, private, spring					22, 850	1, 918
Terrapin, diamond-back			215	$414	5, 826	6, 658
Turtles:						
Loggerhead			105	7		
Snapper			3, 930	358		
Total	327, 419	40, 921	4, 250	779	247, 155	62, 163

OPERATING UNITS: BY COUNTIES

Item	Atlantic	Bergen	Burlington	Camden	Cape May	Cumberland	Gloucester
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	86	3	3		336	2, 663	
On boats and shore—							
Regular	292	2	64	2	410	81	1
Casual	160	20	74	9	260	172	51
Total	538	25	141	11	1, 006	2, 916	52
Vessels:							
Motor—							
5 to 10 tons	2				32	36	
11 to 20 tons	14	1	1		17	92	
21 to 30 tons	2				3	23	
31 to 40 tons					2	8	
41 to 50 tons					1	4	
51 to 60 tons					1	4	
61 to 70 tons					1	1	
71 to 80 tons					1	1	
Total	18	1	1		58	169	
Net tonnage	250	15	11		846	3, 033	
Sail—							
5 to 10 tons						18	
11 to 20 tons						20	
21 to 30 tons						15	
31 to 40 tons						8	
41 to 50 tons						5	
51 to 60 tons						4	

Fisheries of New Jersey, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Atlantic	Bergen	Burlington	Camden	Cape May	Cumberland	Gloucester
Vessels—Continued.							
Sail—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
61 to 70 tons						5	
71 to 80 tons						1	
91 to 100 tons						1	
Total						77	
Net tonnage						2, 085	
Total vessels	18	1	1		58	246	
Total net tonnage	250	15	11		846	5, 118	
Boats:							
Motor	224	7	87		324	103	8
Other	184		34	4	156	77	20
Accessory boats	28	10			45	11	
Apparatus:							
Purse seines—							
Menhaden					1		
Length, yards					456		
Other	4				11		
Length, yards	1, 600				4, 280		
Haul seines	22		19	4	14	12	3
Length, yards	1, 818		1, 980	445	853	1, 410	245
Gill nets—							
Anchor			1				
Square yards			840				
Drift	214		21		472	100	16
Square yards	47, 720		23, 195		211, 148	88, 500	13, 530
Runaround						4	
Square yards						4, 400	
Stake	64	7	6		6	60	
Square yards	3, 072	16, 360	198		600	7, 672	
Lines—							
Hand	39				177	44	
Hooks	70				335	80	
Trawl	178				344	14	
Hooks	114, 200				228, 200	9, 650	
Troll	17				283	4	
Hooks	17				295	4	
Trot, with baits or snoods						3	
Baits or snoods						775	
Pound nets	2				93		
Weirs					65	18	
Stop nets			7	1		19	8
Square yards			5, 550	45		15, 800	2, 500
Fyke nets	4		106		96	185	130
Dip nets	13				6	2	
Cast nets							4
Otter trawls—							
Fish	19				42		
Yards at mouth	471				860		
Shrimp					3		
Yards at mouth					72		
Pots—							
Crab					4		
Eel	12	315			81	20	
Lobster					508		
Spears	9				1		
Dredges—							
Clam					6	28	
Yards at mouth					4	36	
Crab		10					
Yards at mouth		8					
Oyster	4		6			496	
Yards at mouth	4		6			594	
Scallop						4	
Yards at mouth						16	
Tongs	325		83		134	101	
Rakes	273		63		121		
Hoes	14						
Gaffs					3	8	6

Fisheries of New Jersey, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Hudson	Hunterdon	Mercer	Middlesex	Monmouth	Ocean	Salem	Union
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				3	48	150		
On boats and shore—								
Regular	2			6	551	304	32	
Casual		28	21	7	90	211	73	1
Total	2	28	21	16	689	665	105	1
Vessels:								
Motor—								
5 to 10 tons				2	8	26		
11 to 20 tons					3			
Total				2	11	26		
Net tonnage				13	102	164		
Boats:								
Motor	2		1	7	254	325	36	1
Other		9	3	1	150	81	31	
Accessory boats	1			3	13	10		
Apparatus:								
Haul seines		7	5			8	8	
Length, yards		1, 225	950			2, 162	810	
Gill nets—								
Anchor					4			
Square yards					5, 100			
Drift					3		36	
Square yards					47, 800		226, 937	
Runaround				4	42	40		
Square yards				9, 910	129, 564	261, 800		
Stake				2		1, 195		
Square yards				720		133, 201		
Lines—								
Hand					210	80	1	4
Hooks					216	86	2	4
Trawl					135	153		
Hooks					74, 400	77, 000		
Trot, with baits or snoods							1	
Baits or snoods							1, 000	
Pound nets					48	38		
Stop nets							25	
Square yards							10, 809	
Fyke nets			25		51	876	299	
Dip nets					9	5	1	
Drag nets						6		
Yards at mouth						17		
Pots—								
Eel	200			144	2, 727	1, 800		
Lobster				100	21, 112	12, 200		
Spears					35	15		
Dredges—								
Clam				6	16			
Yards at mouth				6	16			
Crab				8	35			
Yards at mouth				8	43			
Oyster						31		
Yards at mouth						30		
Scallop					5			
Yards at mouth					13			
Tongs					19	206		
Rakes					49	161		
Forks					19			
Hoes					56	4		
Gaffs							15	

Fisheries of New Jersey, 1930—Continued

CATCH: BY COUNTIES

Species	Atlantic		Bergen		Burlington		Camden		Cape May	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Albacore									50	$3
Alewives					2, 454	$62	96	$5	4, 000	200
Bluefish	114, 247	$16, 223							780, 985	68, 270
Bonito									20, 480	1, 464
Butterfish	28, 940	2, 175							942, 307	59, 040
Carp					1, 947	290	7, 400	565		
Catfish and bullheads					1, 470	277	565	58		
Cero									20, 000	2, 000
Cod	2, 380, 381	61, 848							3, 091, 981	87, 208
Croaker	107, 475	2, 662							1, 021, 530	35, 937
Dolphin									207	11
Drum:										
Black									6, 904	135
Red or redfish									64, 924	11, 656
Eels	55, 333	5, 055	21, 500	$975	2, 540	279			41, 912	5, 510
Flounders	1, 162, 650	44, 765							1, 278, 237	70, 887
Goosefish									24, 564	984
Grunts									150	6
Hake									5, 315	91
Herring, sea	20, 000	215							31, 099	310
King whiting or "kingfish"	4, 560	422							40, 258	4, 213
Mackerel	176, 600	5, 658							193, 914	8, 545
Menhaden									4, 833, 023	29, 353
Minnows	16, 000	200			2, 000	20				
Mullet									340	22
Mummichog	16, 000	200								
Pilotfish	300	12							1, 360	55
Pollock									200	6
Scup or porgy	500, 000	9, 900							5, 597, 253	123, 965
Sea bass	703, 500	14, 605							1, 126, 343	47, 814
Sea robin									10, 000	100
Shad	1, 050	230	41, 500	5, 684	4, 865	983	2, 421	592	7, 606	1, 035
Sharks	500	20							64, 906	1, 322
Skates	4, 450	108							90, 808	2, 501
Snapper, red									4, 000	400
Spanish mackerel									15, 801	1, 486
Spot	9, 050	362							215, 679	9, 195
Squeteague or "sea trout," gray	431, 200	17, 432							5, 689, 205	179, 435
Striped bass	5, 641	1, 107			1, 203	602			16	4
Sturgeon									2, 805	1, 015
Suckers					19, 463	2, 456	30	3		
Tautog									58, 416	2, 224
Thimble-eyed mackerel									21, 467	625
Tuna or "horse mackerel"									14, 792	573
White perch	33, 087	3, 630			3, 100	620			4, 269	136
Whiting	10, 800	108							90, 032	982
Crabs:										
Hard	2, 600	230	25, 000	2, 250					18, 616	975
King									4, 641, 800	26, 892
Soft	86, 660	7, 800								
Lobsters									2, 200	555
Shrimp									224, 358	9, 193
Squid	880	44							388, 658	11, 451
Clams:										
Hard, public	501, 438	232, 673			143, 600	64, 300			207, 471	107, 136
Hard, private	6, 208	2, 788							80	20
Surf or skimmer									131, 670	15, 281
Mussels									4, 200	282
Oysters:										
Market, public, spring	4, 057	965							5, 111	1, 043
Market, public, fall	8, 305	2, 085							9, 038	2, 194
Market, private, spring	164, 958	38, 781			76, 496	15, 795			3, 310	825
Market, private, fall	257, 092	60, 666			151, 583	31, 187			7, 090	1, 575
Seed, public, spring	21, 942	2, 768			8, 400	2, 350			16, 800	1, 260
Seed, private, spring	136, 793	16, 771			182, 700	15, 225			24, 850	2, 198
Terrapin, diamond-back									333	599
Turtles, snapper									1, 300	156
Total	6, 972, 697	552, 508	88, 000	8, 909	601, 821	134, 446	10, 512	1, 223	31, 104, 023	940, 353

Fisheries of New Jersey, 1930—Continued

CATCH: By counties—Continued

Species	Cumberland		Gloucester		Hudson		Hunterdon		Mercer	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	3, 500	$89	9, 252	$1, 071					8, 500	$55
Bluefish	18, 518	1, 848								
Butterfish	300	21								
Carp	32, 220	4, 728	7, 703	1, 217			300	$36	4, 000	480
Catfish and bullheads	10, 100	969	2, 667	282			50	5		
Cod	8, 460	480								
Croaker	62, 486	1, 963								
Eels	5, 880	551	540	68	20, 000	$2, 000			600	60
Flounders	75	8								
King whiting or "kingfish"	50	3								
Scup or porgy	2, 550	65								
Shad	42, 982	7, 817	2, 238	437			3, 035	1, 049	5, 013	2, 115
Spot	66, 950	3, 142								
Squeteague or "sea trout," gray	92, 769	4, 050								
Striped bass	19, 070	1, 255								
Sturgeon									128	51
Suckers	340	51	142	15			3, 100	230	4, 500	72
Tautog	12, 000	480								
White perch	3, 850	330								
Crabs:										
Hard	13, 086	1, 198								
King	574, 000	656								
Clams:										
Hard, public	79, 632	3, 410								
Hard, private	88, 590	16, 650								
Oysters:										
Market, public, spring	28, 434	3, 663								
Market, public, fall	103, 883	12, 334								
Market, private, spring	3, 214, 855	486, 529								
Market, private, fall	7, 408, 143	1, 103, 705								
Seed, public, spring	18, 574, 828	2, 415, 004								
Seed, public, fall	82, 804	9, 959								
Seed, private, spring	8, 000	600								
Seed, private, fall	4, 000	300								
Scallops, sea	58, 500	9, 800								
Terrapin, diamond-back	5, 708	6, 453								
Turtles:										
Loggerhead	105	7								
Snapper	780	72	500	50						
Total	30, 627, 448	4, 098, 190	23, 042	3, 140	20, 000	2, 000	6, 485	1, 320	22, 741	2, 833

Species	Middlesex		Monmouth		Ocean		Salem		Union	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Albacore			27, 464	$452	3, 600	$54				
Alewives					1, 435, 800	14, 418	520	$28		
Bluefish	13, 278	$1, 245	1, 777, 021	201, 567	256, 095	23, 333			1, 600	$176
Bonito			147, 242	7, 789	61, 724	3, 852			800	56
Butterfish	20	2	732, 479	57, 986	689, 775	59, 385				
Carp							46, 862	5, 830		
Catfish and bullheads					14, 110	750	7, 385	620		
Cod			1, 148, 238	45, 104	1, 150, 311	41, 029				
Croaker			44, 286	1, 744	202, 830	8, 115	1, 200	72		
Cusk			1, 900	19	6, 500	65				
Dolphin			800	16	125	13				
Eels	2, 950	295	238, 638	28, 824	148, 161	14, 767	1, 695	224		
Flounders	8	1	240, 384	18, 813	244, 998	13, 376				
Goosefish			13, 328	134						
Grayfish			11, 440	229						
Haddock			5, 797	205						
Hagfish					7, 200	72				
Hake			141, 766	2, 790	75, 666	1, 121				
Herring, sea	14	1	414, 250	4, 141	194, 484	1, 997				
King whiting or "kingfish"			7, 411	1, 007	16, 944	1, 893				
Mackerel			267, 981	10, 100	17, 233	1, 139				
Menhaden	8, 100	55	890, 196	9, 872	186, 691	2, 070				

Fisheries of New Jersey, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Middlesex		Monmouth		Ocean		Salem		Union	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Pilotfish			800	$56						
Pollock			60	1	2,704	$104				
Scup or porgy			552,843	20,163	911,395	29,173				
Sea bass			456,323	24,758	1,259,983	47,183				
Sea robin			68,125	1,425	39,622	421				
Shad			16,405	2,727	8,926	1,228	87,673	$7,230		
Sharks			52,957	1,773	58,106	680				
Skates			82,517	1,124	63,316	647				
Spanish mackerel			28	8	10	2				
Spot	343	$15	149,264	6,485	101,330	3,446				
Squeteague or "sea trout," gray	18,838	922	1,919,697	75,829	2,945,433	80,139	550	37		
Striped bass			5,089	967	5,843	1,826				
Sturgeon			280	200			995	521		
Tautog			67,318	1,899	44,232	1,512				
Thimble-eyed mackerel			13,962	478	293	12				
Tuna or "horse mackerel"			6,370	574	16,400	1,326				
White perch					105,050	12,510				
Whiting			2,833,775	48,782	829,335	9,696				
Yellow perch					179,210	14,633				
Crabs:										
Hard	9,332	700	180,758	14,754			2,664	200		
Soft			12,368	4,375	6,600	2,925	196	73		
Lobsters	1,275	370	953,598	211,635	53,506	17,550				
Shrimp					21,168	5,292				
Squid			229,470	4,590	620,516	16,934				
Clams:										
Hard, public	7,104	1,420	107,097	15,907	515,214	223,252				
Hard, private			53,536	4,600	2,496	1,000				
Soft, public			628,184	87,722	444	86				
Oysters:										
Market, private, spring			6,712	1,235	189,840	44,787				
Market, private, fall					186,088	41,619				
Seed, private, spring					87,000	7,250				
Scallops, sea			105,600	23,542						
Turtles:										
Loggerhead			800	24						
Snapper			1,800	27			3,050	276		
Total	61,262	5,026	14,616,357	946,452	12,966,307	752,682	152,790	25,111	2,400	$232

Industries related to the fisheries of New Jersey, 1930

TRANSPORTING

Item	Atlantic County	Cape May County	Cumberland County	Monmouth County	Ocean County	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Persons engaged:						
On vessels	5		26	2	2	35
On boats			117			117
Total	5		143	2	2	152
Vessels, motor:						
5 to 10 tons	2		2		1	5
11 to 20 tons			1	1		2
21 to 30 tons			2			2
41 to 50 tons			1			1
Total	2		6	1	1	10
Net tonnage	13		127	13	6	159
Boats		1	175			176

Industries related to the fisheries of New Jersey, 1930—Continued

WHOLESALE AND MANUFACTURING

Operating Units, Salaries, and Wages

Item	Atlantic and Burlington Counties	Bergen and Hudson Counties	Camden and Gloucester Counties	Cape May County
Establishments	15	7	4	22
Persons engaged:				
Proprietors	21	5	5	26
Salaried employees	5	9	5	17
Wage earners—				
Average for season	36	63	89	104
Average for year	26	53	68	62
Paid to salaried employees	$20, 260	$22, 940	$16, 300	$52, 230
Paid to wage earners	35, 500	69, 157	75, 747	76, 498
Total salaries and wages	55, 760	92, 097	92, 047	128, 728

Item	Cumberland County	Essex and Passaic Counties	Monmouth County	Ocean County	Total
Establishments	30	14	15	17	124
Persons engaged:					
Proprietors	54	17	18	19	165
Salaried employees	60	31	6	8	141
Wage earners—					
Average for season	734	361	101	48	1, 536
Average for year	298	351	43	28	929
Paid to salaried employees	$82, 587	$113, 145	$10, 778	$27, 020	$345, 260
Paid to wage earners	175, 882	345, 994	73, 015	45, 521	897, 314
Total salaries and wages	258, 469	459, 139	83, 793	72, 541	1, 242, 574

Products Manufactured

Item	Quantity	Value
King crabs, dry scrap ...tons	458	$17, 857
Clams, soft, fresh-shucked ...gallons	35, 064	51, 766
Marine-shell products:		
Buttons ...gross	907, 015	1, 149, 840
Novelties	(1)	343, 244
Oysters:		
Fresh-shucked ...gallons	439, 824	952, 651
Shell products—		
Poultry feed ...tons	7, 008	72, 267
Lime ...do	1, 618	8, 158
Miscellaneous [2]	(1)	1, 053, 477
Total		3, 649, 260

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 49]

Item	Quantity	Value
Eels, smoked ...pounds	19, 617	$7, 847
Scallops, sea, fresh-shucked ...gallons	18, 000	33, 000
Total		40, 847

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[1] Data not available.

[2] Includes cod and flounder fillets; spiced carp; smoked butterfish, carp, chub, cisco, eels, herring, mackerel, salmon, salmon trout, shad, domestic and Russian sturgeon, lake trout, tullibee, whitefish, and kippered herring; canned hard-clam chowder; king crab meal; menhaden products; and buttons from fresh-water mussels.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 119 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 49 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

PENNSYLVANIA

Fisheries of Pennsylvania, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets, drift	Lines, hand	Fyke nets	Total, exclusive of duplication
	Number	*Number*	*Number*	*Number*	*Number*
Fishermen, on boats and shore, casual	37	19	1	1	52
Boats:					
Motor	----------	5	----------	----------	5
Other	10	5	1	1	14
Apparatus:					
Number	11	11	1	30	----------
Length, yards	1, 380	----------	----------	----------	----------
Square yards	----------	15, 690	----------	----------	----------
Hooks, baits, or snoods	----------	----------	1	----------	----------

CATCH: BY GEAR

Species	Haul seines		Gill nets, drift		Lines, hand		Fyke nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	--------	--------	2, 000	$100	--------	--------	--------	--------
Carp	893	$97	--------	--------	--------	--------	--------	--------
Catfish and bullheads	125	13	--------	--------	--------	--------	1, 300	$150
Eels	--------	--------	--------	--------	865	$200	--------	--------
Shad	2, 112	842	2, 743	622	--------	--------	--------	--------
Sturgeon	182	182	--------	--------	--------	--------	--------	--------
Suckers	6, 525	597	--------	--------	--------	--------	--------	--------
Total	9, 837	1, 731	4, 743	722	865	200	1, 300	150

OPERATING UNITS: BY COUNTIES

Item	Bucks	Delaware	Philadelphia
	Number	*Number*	*Number*
Fishermen on boats and shore, casual	41	9	2
Boats:			
Motor	----------	4	1
Other	12	1	1
Apparatus:			
Haul seines	11	----------	----------
Length, yards	1, 380	----------	----------
Gill nets, drift	5	5	1
Square yards	4, 110	10, 530	1, 050
Lines, hand	----------	----------	1
Hooks	----------	----------	1
Fyke nets	----------	30	----------

Fisheries of Pennsylvania, 1930—Continued

CATCH: BY COUNTIES

Species	Bucks		Delaware		Philadelphia	
	Pounds	Value	Pounds	Value	Pounds	Value
Alewives			2,000	$100		
Carp	893	$97				
Catfish and bullheads	125	13	1,300	150		
Eels					865	$200
Shad	2,720	1,053	2,015	363	120	48
Sturgeon	182	182				
Suckers	6,525	597				
Total	10,445	1,942	5,315	613	985	248

Industries related to the fisheries of Pennsylvania

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Berks, Delaware, and Lehigh Counties	Philadelphia County	Total
Establishments	3	53	56
Persons engaged:			
Proprietors	5	81	86
Salaried employees	8	116	124
Wage earners—			
Average for season	52	488	540
Average for year	48	405	453
Paid to salaried employees	$34,734	$520,193	$554,927
Paid to wage earners	36,873	571,478	608,351
Total salaries and wages	71,607	1,091,671	1,163,278

PRODUCTS MANUFACTURED

Item	Quantity	Value
Herring, sea, smoked ... pounds	112,000	$9,240
Mackerel, smoked ... do	7,600	1,600
Shad, smoked ... do	87,375	20,644
Whitefish, smoked ... do	35,000	11,750
Hard clams, fresh-shucked ... gallons	9,234	23,044
Oysters:		
Fresh-shucked ... do	103,605	268,097
Shell products—		
Poultry feed ... tons	5,738	61,091
Lime ... do	1,752	8,629
Miscellaneous [1]	(2)	1,623,110
Total		2,027,205

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[1] Includes spiced alewives and herring; smoked alewives, butterfish, carp, chub, ciscoes, cod fillets, haddock fillets, herring bloaters, kippered herring, Nova Scotia herring, salmon, kippered salmon, sturgeon, lake trout, tullibee from Canada, Russian sturgeon, and finnan haddie; fish scrap; marine-shell products; and fresh-water mussel-shell products.

[2] Data not available.

DELAWARE

Fisheries of Delaware, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines, menhaden	Haul seines	Gill nets			Lines		
			Drift	Run-around	Stake	Hand	Trawl	Trot, with baits or snoods
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	570							
On boats and shore—								
Regular		124	37	42	31	31	8	
Casual		229	71	31	40	11	2	1
Total	570	353	108	73	71	42	10	1
Vessels:								
Steam—								
41 to 50 tons	1							
81 to 90 tons	1							
101 to 110 tons	3							
111 to 120 tons	1							
121 to 130 tons	1							
161 to 170 tons	2							
171 to 180 tons	4							
181 to 190 tons	1							
Total	14							
Net tonnage	1,904							
Motor—								
61 to 70 tons	1							
101 to 110 tons	1							
Total	2							
Net tonnage	172							
Total vessels	16							
Total net tonnage	2,076							
Boats:								
Motor		1	39	12	7	13	4	
Other		93	14	22	27	5	1	1
Accessory boats	51	6	3	1	4			
Apparatus:								
Number	16	87	79	45	209	52	14	1
Length, yards	6,528	23,970						
Square yards			211,379	40,000	23,424			
Hooks, baits, or snoods						104	6,100	50

Item	Pound nets	Stop nets	Fyke nets	Dip nets	Cast nets	Pots		Spears
						Eel	Lobster	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On boats and shore—								
Regular	16	2	22	20		18	11	
Casual	25	12	27	16	7	16	2	6
Total	41	14	49	36	7	34	13	6
Boats:								
Motor			3	1		6	4	2
Other	15	9	15	21	4	17		3
Accessory boats	2		2			2		
Apparatus:								
Number	67	9	320	36	7	775	185	6
Square yards		3,368						

Fisheries of Delaware, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Dredges		Tongs	Rakes	Gaffs	By hand	Total, exclusive of duplication
	Clam	Oyster					
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	30	90					666
On boats and shore—							
Regular			67	5			197
Casual			13		1	10	374
Total	30	90	80	5	1	10	1, 237
Vessels:							
Steam—							
41 to 50 tons							1
81 to 90 tons							1
101 to 110 tons							3
111 to 120 tons							1
121 to 130 tons							1
161 to 170 tons							2
171 to 180 tons							4
181 to 190 tons							1
Total							14
Net tonnage							1, 904
Motor—							
5 to 10 tons	1	2					2
11 to 20 tons	1	2					2
21 to 30 tons	2	2					3
61 to 70 tons							1
101 to 110 tons							1
Total	4	6					9
Net tonnage	66	95					289
Sail—							
5 to 10 tons		3					3
11 to 20 tons	1	7					7
Total	1	10					10
Net tonnage	14	133					133
Total vessels	5	16					33
Total net tonnage	80	228					2, 326
Boats:							
Motor			2	3			68
Other			70				192
Accessory boats			18	1			86
Apparatus:							
Number	10	32	80	6	1	10	
Yards at mouth	10	39					

CATCH: BY GEAR

Species	Purse seines, menhaden		Haul seines		Gill nets			
					Drift		Runaround	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			3, 039, 201	$6, 188	30, 533	$389		
Bluefish			3, 750	371	17, 500	1, 114		
Carp			56, 184	5, 017	2, 000	240		
Catfish and bullheads			24, 295	2, 250				
Croaker			398, 350	9, 992	449, 800	9, 200	163, 880	$5, 324
Eels			4, 282	510				
Flounders			28, 950	1, 998				
Gizzard shad			950	7				
King whiting or "kingfish"			3, 080	119				
Menhaden	41, 960, 142	$307, 112						
Mullet			1, 800	130			63, 000	4, 170
Shad			1, 016	168	46, 229	9, 424		
Spot			3, 960	101	122, 500	6, 526	51	3
Squeteagues or "sea trout," gray			713, 350	25, 892	315, 000	6, 817	87, 800	2, 681
Striped bass			25, 250	5, 585	13, 500	3, 645		
Sturgeon					15, 313	6, 253		
White perch			96, 775	15, 148	19, 900	3, 936		
Yellow perch			32, 035	3, 155				
Yellowtail			2, 940	84				
Total	41, 960, 142	307, 112	4, 436, 168	76, 715	1, 032, 275	47, 544	314, 731	12, 178

Fisheries of Delaware, 1930—Continued

CATCH: BY GEAR—Continued

Species	Gill nets—Con.		Lines					
	Stake		Hand		Trawl		Trot, with baits or snoods	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	88, 926	$2, 268						
Bluefish	4, 900	343	4, 860	$486				
Carp	14, 000	2, 040						
Catfish and bullheads	931	126						
Cod					97, 144	$3, 600		
Croaker			112, 900	4, 188				
Eels							2, 605	$443
Flounders	68, 550	4, 897						
Scup			27, 000	2, 160				
Sea bass			20, 250	1, 620				
Shad	7, 201	1, 282						
Spot			20, 250	1, 620				
Squeteagues or "sea trout," gray	41, 900	490	75, 975	4, 518				
Striped bass	57, 494	12, 090						
Suckers	150	9						
Tautog			74, 000	2, 300				
White perch	55, 030	9, 411						
Total	339, 082	32, 956	335, 235	16, 892	97, 144	3, 600	2, 605	443

Species	Pound nets		Stop nets		Fyke nets		Dip nets		Cast nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	34, 706	$891			600	$6				
Carp	1, 688	212	4, 659	$674	630	38			5, 175	$734
Catfish and bullheads	7, 333	775	775	72	3, 273	279			1, 310	145
Eels	2, 818	393			44, 387	5, 158				
Flounders	7, 393	525			27, 660	2, 083				
Squeteagues or "sea trout," gray	400	40			300	30				
Striped bass	1, 453	351			4, 330	778				
White perch	6, 234	799			32, 032	5, 821				
Yellow perch	2, 350	229	330	26	13, 045	1, 279				
Crabs:										
King	762, 500	990								
Soft							23, 800	$4, 850		
Turtles, snapper					2, 550	133				
Total	826, 875	5, 205	5, 764	772	128, 807	15, 605	23, 800	4, 850	6, 485	879

Species	Pots				Spears		Dredges			
	Eel		Lobster				Clam		Oyster	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Carp					1, 500	$90				
Catfish and bullheads					1, 000	114				
Eels	38, 499	$4, 354			998	138				
Lobsters			11, 750	$2, 620						
Clams:										
Hard, public							6, 903	$2, 020		
Hard, private							6, 003	2, 001		
Oysters:										
Market, private, spring							28, 120	3, 967		
Market, private, fall							29, 712	4, 171	201, 926	$27, 618
Seed, public, spring							38, 250	2, 550	549, 000	39, 600
Total	38, 499	4, 354	11, 750	2, 620	3, 498	342	108, 988	14, 709	750, 926	67, 218

Fisheries of Delaware, 1930—Continued

CATCH: BY GEAR—Continued

Species	Tongs		Rakes		Gaffs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, king							206, 260	$275
Clams, hard, public	9, 600	$1, 020	2, 000	$750				
Mussels	19, 500	1, 875						
Oysters:								
Market, public, fall	166, 467	18, 942						
Market, private, fall	1, 875	213						
Seed, public, spring	176, 850	11, 220						
Seed, public, fall	75, 374	4, 501						
Turtles, snapper					100	$5		
Total	449, 666	37, 771	2, 000	750	100	5	206, 260	275

OPERATING UNITS: BY COUNTIES

Item	Kent	New Castle	Sussex
Fishermen:	*Number*	*Number*	*Number*
On vessels	90		576
On boats and shore—			
Regular	118	1	78
Casual	49	71	254
Total	257	72	908
Vessels:			
Steam—			
41 to 50 tons			1
81 to 90 tons			1
101 to 110 tons			3
111 to 120 tons			1
121 to 130 tons			1
161 to 170 tons			2
171 to 180 tons			4
181 to 190 tons			1
Total			14
Net tonnage			1, 904
Motor—			
5 to 10 tons	2		
11 to 20 tons	2		
21 to 30 tons	2		1
61 to 70 tons			1
101 to 110 tons			1
Total	6		3
Net tonnage	93		196
Sail—			
5 to 10 tons	3		
11 to 20 tons	7		
Total	10		
Net tonnage	133		
Total vessels	16		17
Total net tonnage	226		2, 100
Boats:			
Motor	17	16	35
Other	80	26	86
Accessory boats	21	4	61
Apparatus:			
Purse seines, menhaden			16
Length, yards			6, 528
Haul seines	24	15	48
Length, yards	8, 010	1, 530	14, 430
Gill nets—			
Drift	11	29	39
Square yards	35, 000	133, 889	42, 490
Runaround	4		41
Square yards	14, 000		26, 000
Stake	46	7	156
Square yards	9, 490	2, 800	11, 134

Fisheries of Delaware, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Kent	New Castle	Sussex
Apparatus—Continued.			
Lines—	*Number*	*Number*	*Number*
Hand	20	--------	32
Hooks	40	--------	64
Trawl	6	--------	8
Hooks	3, 100	--------	3, 000
Trot, with baits or snoods	--------	1	--------
Baits or snoods	--------	50	--------
Pounds nets	23	15	29
Stop nets	2	7	--------
Square yards	3, 200	168	--------
Fyke nets	45	58	217
Dip nets	--------	--------	36
Cast nets	3	4	--------
Pots—			
Eel	127	--------	648
Lobster	--------	--------	185
Spears	--------	--------	6
Dredges—			
Clam	10	--------	--------
Yards at mouth	10	--------	--------
Oyster	30	--------	2
Yards at mouth	37	--------	2
Tongs	69	--------	11
Rakes	6	--------	--------
Gaffs	--------	1	--------
By hand	10	--------	--------

CATCH: BY COUNTIES

Species	Kent		New Castle		Sussex	
	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	1, 700	$34	--------	--------	3, 192, 266	$9, 708
Bluefish	--------	--------	--------	--------	31, 010	2, 314
Carp	3, 859	596	45, 809	$6, 375	36, 168	2, 074
Catfish and bullheads	3, 319	410	17, 664	1, 722	17, 934	1, 629
Cod	24, 144	590	--------	--------	73, 000	3, 010
Croaker	190, 250	5, 798	750	84	933, 930	22, 822
Eels	10, 367	1, 064	12, 506	1, 500	70, 716	8, 432
Flounders	--------	--------	--------	--------	132, 553	9, 503
Gizzard shad	--------	--------	950	7	--------	--------
King whiting or "kingfish"	1, 400	70	--------	--------	1, 680	49
Menhaden	--------	--------	--------	--------	41, 960, 142	307, 112
Mullet	1, 000	50	--------	--------	63, 800	4, 250
Scup	--------	--------	--------	--------	27, 000	2, 160
Sea bass	--------	--------	--------	--------	20, 250	1, 620
Shad	7, 201	1, 282	36, 479	7, 774	10, 766	1, 818
Spot	--------	--------	--------	--------	146, 761	8, 250
Squeteague or "sea trout," gray	363, 025	18, 198	750	84	870, 950	22, 186
Striped bass	37, 200	8, 750	520	94	64, 307	13, 605
Sturgeon	--------	--------	15, 313	6, 253	--------	--------
Suckers	150	9	--------	--------	--------	--------
Tautog	--------	--------	--------	--------	74, 000	2, 300
White perch	51, 825	6, 853	2, 825	294	155, 321	27, 968
Yellow perch	100	9	3, 915	361	43, 745	4, 319
Yellowtail	--------	--------	--------	--------	2, 940	84
Crabs:						
King	968, 760	1, 265	--------	--------	--------	--------
Soft	--------	--------	--------	--------	23, 800	4, 850
Lobsters	--------	--------	--------	--------	11, 750	2, 620
Clams:						
Hard, public	18, 503	3, 790	--------	--------	--------	--------
Hard, private	6, 003	2, 001	--------	--------	--------	--------
Mussels	19, 500	1, 875	--------	--------	--------	--------
Oysters:						
Market, public, fall	86, 675	8, 068	--------	--------	79, 792	10, 874
Market, private, spring	28, 120	3, 967	--------	--------	--------	--------
Market, private, fall	210, 263	29, 002	--------	--------	23, 250	3, 000
Seed, public, spring	753, 300	52, 650	--------	--------	10, 800	720
Seed, public, fall	64, 800	3, 795	--------	--------	10, 574	706
Turtles, snapper	2, 550	133	100	5	--------	--------
Total	2, 854, 014	150, 259	137, 581	24, 553	48, 089, 205	477, 983

Industries related to the fisheries of Delaware, 1930

TRANSPORTING IN KENT COUNTY

Persons engaged on vessels	5
Vessels, motor	1
Net tonnage	9

WHOLESALE AND MANUFACTURING

Operating Units, Salaries, and Wages

Item	Kent County	New Castle County	Sussex County	Total
Establishments	4	5	9	18
Persons engaged:				
Proprietors	8	5	10	23
Salaried employees	4	3	15	22
Wage earners—				
Average for season	34	16	283	333
Average for year	18	9	103	130
Paid to salaried employees	$7,752	$6,500	$28,840	$43,092
Paid to wage earners	15,047	10,682	61,365	87,094
Total, salaries and wages	22,799	17,182	90,205	130,186

Products Manufactured

Item	Quantity	Value
Oysters, fresh-shucked ... gallons	78,080	$153,584
Miscellaneous [1]	(2)	603,675
Total		757,259

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 39]

King crabs, dry scrap ... tons	178	$7,104

[1] Includes shucked hard clams; marine and domestic shell products; canned sturgeon caviar; oyster-shell products; and menhaden products.

[2] Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 5 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 39 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

VESSEL FISHERIES AT NEW YORK CITY AND GROTON, CONN.[7]

During 1931 fishing vessels of 5 net tons capacity or greater landed 51,854,000 pounds of fishery products at New York City and Groton, Conn. This is 9 per cent less than during the previous year. The landings consisted of bluefish, 1,788,000 pounds; cod, 5,368,000 pounds; flounders, 8,438,000 pounds; haddock, 28,502,000 pounds; halibut, 47,000 pounds; mackerel, 1,685,000 pounds; scup or porgies and sea bass, 696,000 pounds; tilefish, 2,782,000 pounds; squeteague or weakfish, 37,000 pounds; and miscellaneous species, 2,511,000 pounds.

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[7] Statistics on the landings at New York City are collected by J. H. Matthews, executive secretary, Middle Atlantic Fisheries Association and forwarded to this bureau where they are combined with Groton landings. The statistics for the two ports are combined to avoid disclosure of individual enterprise.

SHAD FISHERY OF THE HUDSON RIVER

The shad fishery of the Hudson River in 1931 was prosecuted by 252 fishermen, who used 25 motor boats, 107 other boats, 104 drift gill nets, having a total area of 315,298 square yards, 19 stake gill nets having a total area of 19,167 square yards, and 2 haul seines having a combined length of 349 yards. The total catch was 125,943 shad, having a weight of 414,611 pounds and a value to the fishermen of $49,781. This is an increase of slightly over 100 per cent in number and 49 per cent in value as compared with 1930. The average price per pound received by the fishermen in 1931 was about 12 cents as compared with 16 cents received in 1930.

About 73 per cent of the catch in number was taken with drift gill nets, 25 per cent with stake gill nets, and 1 per cent with haul seines. The remainder was taken incidentally with gear used mainly for other species of fish.

With the exception of some fishing with stake gill nets from one town in New Jersey, the fishing was prosecuted entirely from points in New York.

Shad fishery of the Hudson River, 1931

Item	New York			New Jersey			Total		
	Number	Pounds	Value	Number	Pounds	Value	Number	Pounds	Value
Fishermen:									
On boats and shore—									
Regular	5	--------	--------	2	--------	--------	7	--------	--------
Casual	224	--------	--------	21	--------	--------	245	--------	--------
Total	229	--------	--------	23	--------	--------	252	--------	--------
Boats:									
Motor	22	--------	--------	3	--------	--------	25	--------	--------
Other	101	--------	--------	6	--------	--------	107	--------	--------
Apparatus:									
Gill nets—									
Drift	104	--------	--------	--------	--------	--------	104	--------	--------
Square yards	315, 298	--------	--------	--------	--------	--------	315, 298	--------	--------
Stake	15	--------	--------	4	--------	--------	19	--------	--------
Square yards	12, 167	--------	--------	7, 000	--------	--------	19, 167	--------	--------
Haul seines	2	--------	--------	--------	--------	--------	2	--------	--------
Length, yards	349	--------	--------	--------	--------	--------	349	--------	--------
Shad caught:									
With drift gill nets	92. 353	303, 563	$36, 546	--------	--------	--------	92, 353	303, 563	$36, 546
With stake gill nets	9, 975	33, 795	3, 587	21, 900	72, 000	$8, 941	31, 875	105, 795	12, 528
With haul seines	1, 270	3, 815	437	--------	--------	--------	1, 270	3, 815	437
Incidentally	445	1, 438	270	--------	--------	--------	445	1, 438	270
Total	104, 043	342, 611	40, 840	21, 900	72, 000	8, 941	125, 943	414, 611	49, 781

FISHERIES OF THE CHESAPEAKE BAY STATES[8]

The yield of fishery products in the Chesapeake Bay States (Maryland and Virginia) during 1930 amounted to 316,392,924 pounds, valued at $11,472,050. This is an increase of 15 per cent in the catch but a decrease of 1 per cent in the value of the catch as compared with the quantity and its value for 1929. Of the total catch in 1930, 199,326,534 pounds, valued at $4,391,493, were fish; and 117,066,390 pounds, valued at $7,080,557, were shellfish and miscellaneous products. These fisheries gave employment to 19,391 fishermen, or 5 per cent more than in 1929. Of the total number of fishermen employed during 1930, 2,579 regular fishermen were engaged on vessels, and 10,635 regular and 6,177 casual fishermen were employed in the shore and boat fisheries.

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[8] With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

Fisheries of the Chesapeake Bay States, 1930

SUMMARY OF CATCH

Product	Maryland		Virginia		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	16, 680, 888	$873, 469	182, 645, 646	$3, 518, 024	199, 326, 534	$4, 391, 493
Shellfish, etc	54, 417, 656	3, 111, 279	62, 648, 734	3, 969, 278	117, 066, 390	7, 080, 557
Total	71, 098, 544	3, 984, 748	245, 294, 380	7, 487, 302	316, 392, 924	11, 472, 050

OPERATING UNITS: BY STATES

Item	Maryland	Virginia	Total
Fishermen:	*Number*	*Number*	*Number*
On vessels	1, 127	1, 452	2, 579
On boats and shore—			
Regular	4, 917	5, 718	10, 635
Casual	2, 483	3, 694	6, 177
Total	8, 527	10, 864	19, 391
Vessels:			
Steam	------------	25	25
Net tonnage	------------	2, 902	2, 902
Motor	2	85	87
Net tonnage	13	1, 440	1, 453
Sail	252	27	279
Net tonnage	2, 796	219	3, 015
Total vessels	254	137	391
Total net tonnage	2, 809	4, 561	7, 370
Boats:			
Motor	3, 687	4, 530	8, 217
Other	2, 435	3, 168	5, 603
Accessory boats	20	62	82
Apparatus:			
Purse seines—			
Menhaden	------------	31	31
Length, yards	------------	8, 720	8, 720
Other	18	------------	18
Length, yards	5, 012	------------	5, 012
Haul seines	188	187	375
Length, yards	34, 784	59, 430	94, 214
Gill nets—			
Anchor	11	1	12
Square yards	2, 845	9, 600	12, 445
Drift	303	652	955
Square yards	447, 800	663, 042	1, 110, 842
Runaround	5	------------	5
Square yards	5, 920	------------	5, 920
Stake	2, 564	16, 453	19, 017
Square yards	151, 660	607, 190	758, 850
Lines—			
Hand	18	------------	18
Hooks	36	------------	36
Trot, with baits or snoods	1, 510	1, 386	2, 896
Baits or snoods	977, 035	662, 440	1, 639, 475
Trot, with hooks	22	------------	22
Hooks	3, 450	------------	3, 450
Pound nets	692	2, 262	2, 954
Stop nets	6	------------	6
Square yards	10, 350	------------	10, 350
Fyke nets	2, 388	1, 084	3, 472
Dip nets	1, 393	712	2, 105

Fisheries of the Chesapeake Bay States, 1930—Continued

OPERATING UNITS: BY STATES—Continued

Item	Maryland	Virginia	Total
pparatus—Continued.	*Number*	*Number*	*Number*
Cast nets	3		3
Otter trawls		12	12
Yards at mouth		358	358
Pots, eel	12, 652	640	13, 292
Spears	18		18
Scrapes	1, 232	618	1, 850
Yards at mouth	1, 232	618	1, 850
Dredges—			
Crab		102	102
Yards at mouth		182	182
Oyster	710	256	966
Yards at mouth	898	293	1, 191
Scallop		924	924
Yards at mouth		617	617
Tongs	4, 849	4, 820	9, 669
Rakes	134	948	1, 082
Picks	8	477	485

CATCH: BY STATES

Species	Maryland		Virginia		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
lewives	5, 741, 307	$86, 121	15, 387, 018	$181, 533	21, 128, 325	$267, 654
lack bass	19, 179	3, 263			19, 179	3, 263
luefish	267, 611	26, 031	230, 006	16, 182	497, 617	42, 213
onito	5, 200	416	43, 615	2, 181	48, 815	2, 597
utterfish	615, 480	37, 118	3, 675, 005	163, 675	4, 290, 485	200, 793
abio, or crab eater	200	10			200	10
arp	226, 240	22, 038	242, 750	11, 757	468, 990	33, 795
atfish and bullheads	398, 983	19, 500	407, 787	15, 471	806, 770	34, 971
od			50, 103	1, 200	50, 103	1, 200
roaker	2, 113, 780	62, 271	19, 908, 201	462, 763	22, 021, 981	525, 034
rum:						
Black	40, 000	500	24, 370	517	64, 370	1, 017
Red or redfish	16, 000	327	36, 200	1, 437	52, 200	1, 764
els	314, 361	27, 115	74, 765	6, 626	389, 126	33, 741
lounders	102, 375	5, 011	559, 564	26, 014	661, 939	31, 025
izzard shad	31, 999	764	135, 750	3, 234	167, 749	3, 998
oldfish or “sand perch”	12, 665	621			12, 665	621
ake			1, 422	42	1, 422	42
arvestfish			400	20	400	20
ickory shad	6, 550	229	83, 900	2, 828	90, 450	3, 057
ing whiting or “kingfish”	1, 600	128	2, 989	144	4, 589	272
ackerel	800	48	47, 874	4, 747	48, 674	4, 795
enhaden			115, 841, 600	767, 210	115, 841, 600	767, 210
ullet	22, 150	1, 181	93, 000	3, 910	115, 150	5, 091
igfish	400	20	68, 700	3, 444	69, 100	3, 464
ike or pickerel	10, 918	2, 019	80	20	10, 998	2, 039
ompano	100	25	2, 000	400	2, 100	425
cup	60, 000	2, 400	403, 514	20, 461	463, 514	22, 861
ea bass	20, 200	1, 212	191, 573	14, 479	211, 773	15, 691
ea robin	600	6			600	6
had	998, 436	149, 742	6, 183, 009	989, 125	7, 181, 445	1, 138, 867
kates	800	8	1, 800	27	2, 600	35
panish mackerel	8, 200	1, 010	50, 150	6, 480	58, 350	7, 490
pot	126, 295	6, 569	2, 492, 935	124, 874	2, 619, 230	131, 443
queteagues or “sea trout”:						
Gray	3, 753, 647	172, 258	15, 512, 389	580, 708	19, 266, 036	752, 966
Spotted	3, 580	423	198, 000	23, 769	201, 580	24, 192
triped bass	1, 227, 990	203, 569	425, 175	67, 076	1, 653, 165	270, 645
turgeon			4, 590	1, 380	4, 590	1, 380
autog	200	10	800	32	1, 000	42
omcod	280	8			280	8
hite perch	420, 246	31, 738	196, 245	9, 761	616, 491	41, 499
hiting	5, 000	200	21, 707	897	26, 707	1, 097
ellow perch	107, 516	9, 560	46, 660	3, 600	154, 176	13, 160
Total	16, 680, 888	873, 469	182, 645, 646	3, 518, 024	199, 326, 534	4, 391, 493

Fisheries of the Chesapeake Bay States, 1930—Continued

CATCH: BY STATES—Continued

Species	Maryland		Virginia		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC.						
Crabs:						
Hard	31, 625, 767	$529, 005	28, 939, 870	$543, 056	60, 565, 637	$1, 072, 061
Soft	5, 313, 016	455, 166	2, 881, 000	195, 005	8, 194, 016	650, 171
Squid	100, 000	4, 000	125, 383	3, 849	225, 383	7, 849
Clams, hard, public	80, 800	40, 400	1, 212, 736	391, 771	1, 293, 536	432, 171
Oysters: [1]						
Market, public, spring	4, 574, 673	544, 278	1, 581, 175	185, 490	6, 155, 848	729, 768
Market, public, fall	10, 648, 311	1, 272, 071	4, 843, 530	567, 473	15, 491, 841	1, 839, 544
Market, private, spring	489, 125	65, 015	2, 980, 752	346, 317	3, 469, 877	411, 332
Market, private, fall	1, 393, 860	188, 608	10, 212, 420	1, 182, 665	11, 606, 280	1, 371, 273
Seed, public, spring	188, 404	11, 072	2, 509, 715	125, 483	2, 698, 119	136, 555
Seed, public, fall			5, 537, 205	280, 605	5, 537, 205	280, 605
Scallops, bay			1, 824, 948	147, 564	1, 824, 948	147, 564
Turtles, snapper	1, 600	64			1, 600	64
Terrapin, diamond-back	2, 100	1, 600			2, 100	1, 600
Total	54, 417, 656	3, 111, 279	62, 648, 734	3, 969, 278	117, 066, 390	7, 080, 557
Grand total	71, 098, 544	3, 984, 748	245, 294, 380	7, 487, 302	316, 392, 924	11, 472, 050

PRODUCTION OF CERTAIN SHELLFISH IN NUMBERS AND BUSHELS

Product	Maryland		Virginia		Total	
	Quantity	Value	Quantity	Value	Quantity	Value
Crabs:						
Hard ... number	94, 877, 301	$529, 005	86, 819, 610	$543, 056	181, 696, 911	$1, 072, 061
Soft ... do	15, 939, 048	455, 166	8, 643, 000	195, 005	24, 582, 048	650, 171
Clams, hard ... bushels	10, 100	40, 400	151, 592	391, 771	161, 692	432, 171
Oysters:						
Market, public, spring ... do	617, 115	544, 278	230, 492	185, 490	847, 607	729, 768
Market, public, fall ... do	1, 436, 437	1, 272, 071	706, 054	567, 473	2, 142, 491	1, 839, 544
Market, private, spring ... do	65, 982	65, 015	434, 512	346, 317	500, 494	411, 332
Market, private, fall ... do	188, 029	188, 608	1, 488, 691	1, 182, 665	1, 676, 720	1, 371, 273
Seed, public, spring ... do	37, 681	11, 072	501, 943	125, 483	539, 624	136, 555
Seed, public, fall ... do			1, 107, 441	280, 605	1, 107, 441	280, 605
Scallops, bay ... do			304, 158	147, 564	304, 158	147, 564

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[1] Statistics on oyster used in this table are based on yields of 7.413 pounds of meats to the bushel for market oysters in Maryland, 6.86 pounds for market oysters in Virginia, and 5 pounds for seed oysters in both States. In reports for previous years all oysters in both States have been computed on the basis of a uniform yield of 7 pounds to the bushel.

Industries related to the fisheries of the Chesapeake Bay States, 1930

Item	Maryland	Virginia	Total
Transporting:	*Number*	*Number*	*Number*
Persons engaged	354	501	855
Vessels—			
Motor	151	253	404
Net tonnage	2,227	3,046	5,273
Sail	23	1	24
Net tonnage	707	30	737
Total vessels	174	254	428
Total net tonnage	2,934	3,076	6,010
Wholesale and manufacturing:			
Establishments	323	220	543
Persons engaged—			
Proprietors	509	303	812
Salaried employees	216	78	294
Wage earners:			
Average for season	6,121	4,448	10,569
Average for year	2,891	1,817	4,708
Salaries and wages paid	$1,756,224	$1,220,122	$2,976,346
Products [1]	$5,155,591	$5,228,100	$10,383,691
Fishermen's manufactured products:			
Persons engaged	52	479	531
Products	$8,140	$100,000	$108,140

[1] These production figures are not comparable with those shown in previous bulletins, since packaged fresh and frozen fishery products are now included.

NOTE.—Of the total number of persons engaged in the preparation of fishermen's manufactured products, 528 have been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

MARYLAND

Fisheries of Maryland, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines	Haul seines	Gill nets				Lines			Pound nets	Stop nets
			Anchor	Drift	Runaround	Stake	Hand	Trot, with baits or snood	Trot, with hooks		
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:											
On vessels	74	------	------	------	------	------	------	------	------	------	------
On boats and shore—											
Regular	46	294	18	74	14	74	18	1,317	10	510	1
Casual	------	285	2	374	2	83	------	160	3	176	10
Total	120	579	20	448	16	157	18	1,477	13	686	11
Vessels:											
Motor—5 to 10 tons	1	------	------	------	------	------	------	------	------	------	------
Net tonnage	7	------	------	------	------	------	------	------	------	------	------
Sail—											
5 to 10 tons	1	------	------	------	------	------	------	------	------	------	------
11 to 20 tons	2	------	------	------	------	------	------	------	------	------	------
21 to 30 tons	6	------	------	------	------	------	------	------	------	------	------
31 to 40 tons	1	------	------	------	------	------	------	------	------	------	------
Total	10	------	------	------	------	------	------	------	------	------	------
Net tonnage	222	------	------	------	------	------	------	------	------	------	------
Total vessels	11	------	------	------	------	------	------	------	------	------	------
Total net tonnage	229	------	------	------	------	------	------	------	------	------	------
Boats:											
Motor	20	90	9	166	5	64	9	1,233	------	236	3
Other	1	186	1	95	5	50	------	208	13	263	4
Accessory boats	20	------	------	------	------	------	------	------	------	------	------
Apparatus:											
Number	18	188	11	303	5	2,564	18	1,510	22	692	6
Length, yards	5,012	34,784	------	------	------	------	------	------	------	------	------
Square yards	------	------	2,845	447,800	5,920	151,660	------	------	------	------	10,350
Hooks, baits, or snoods	------	------	------	------	------	------	36	977,035	3,450	------	------

Fisheries of Maryland, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Fyke nets	Dip nets	Cast nets	Pots, eel	Spears	Scrapes	Dredges, oyster	Tongs	Rakes	Picks	By hand	Total, exclusive of duplication
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:												
On vessels							1,085	3				1,127
On boats and shore—												
Regular	35	991		123	18	640	201	3,345	98		16	4,917
Casual	107	408	3	42		22		1,114	36	8	35	2,483
Total	142	1,399	3	165	18	662	1,286	4,462	134	8	51	8,527
Vessels:												
Motor—5 to 10 tons								1				2
Net tonnage								6				13
Sail—												
5 to 10 tons							194					194
11 to 20 tons							23					24
21 to 30 tons							18					21
31 to 40 tons							6					7
41 to 50 tons							4					4
51 to 60 tons							2					2
Total							247					252
Net tonnage							2,676					2,796
Total vessels							247	1				254
Total net tonnage							2,676	6				2,809
Boats:												
Motor	68	530		138	12		20	2,579	48		5	3,687
Other	60	961	3	6	6	584	88	368	37	8	46	2,435
Accessory boats												20
Apparatus:												
Number	2,388	1,393	3	12,652	18	1,232	710	4,849	134	8		
Yards at mouth						1,232	898					

CATCH: BY GEAR

Species	Purse seines		Haul seines		Gill nets			
					Anchor		Drift	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			101,200	$1,524			46,809	$724
Black bass			11,475	1,880				
Bluefish	88,136	$8,818	31,300	2,830				
Carp			149,593	14,210				
Catfish and bullheads			114,825	5,554				
Croaker	73,218	1,957	620,200	20,982			8,400	252
Eels			1,960	149				
Flounders			9,700	507				
Gizzard shad			2,100	50				
Goldfish or "sand perch"			9,665	491				
Hickory shad							500	20
Mullet			1,300	74	18,000	$916		
Pike or pickerel			2,685	527				
Shad			2,837	397			225,625	33,602
Spot	2,700	177	44,000	2,697				
Squeteagues or "sea trout":								
Gray	170,746	12,220	87,650	5,836			200	20
Spotted			2,400	288				
Striped bass	310,607	47,364	219,903	40,315	1,200	240	170,212	28,533
White perch			107,085	8,149	2,000	200	11,300	885
Yellow perch			15,835	1,431			400	40
Crabs, soft			48,314	5,566				
Total	645,407	70,536	1,584,027	113,457	21,200	1,356	463,446	64,076

Fisheries of Maryland, 1930—Continued

CATCH: BY GEAR—Continued

Species	Gill nets—Continued				Lines			
	Runaround		Stake		Hand		Trot, with baits or snoods	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			18,600	$335				
Bluefish	49,800	$4,784			40,000	$4,000		
Bonito					2,000	160		
Catfish and bullheads			200	10				
Croaker			400	12	5,800	174		
Flounders					6,400	320		
Gizzard shad			684	27				
Mullet			300	24				
Scup or porgy					22,400	896		
Sea bass					20,000	1,200		
Shad			135,211	20,398				
Spanish mackerel	200	50						
Squeteagues or "sea trout," gray			1,500	120	32,000	1,600		
Striped bass	2,500	450	122,000	18,839				
White perch			10,800	820				
Yellow perch			1,200	120				
Crabs, hard							30,315,632	$505,730
Total	52,500	5,284	290,895	40,705	128,600	8,350	30,315,632	505,730

Species	Lines—Contd.		Pound nets		Stop nets		Fyke nets	
	Trot, with hooks							
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			5,574,298	$83,530			400	$8
Black bass			250	46			7,454	1,337
Bluefish			58,375	5,599				
Bonito			3,200	256				
Butterfish			615,480	37,118				
Cabio or crab eater			200	10				
Carp			14,822	1,100	31,800	$3,636	6,025	572
Catfish and bullheads	8,300	$415	137,372	6,625			138,286	6,896
Croaker			1,405,462	38,869			300	25
Drum:								
Black			40,000	500				
Red or redfish			16,000	327				
Eels	1,840	147	19,014	1,561			23,087	2,057
Flounders			86,275	4,184				
Gizzard shad			26,915	633			2,300	54
Goldfish or "sand perch"			400	16			2,600	114
Hickory shad			5,650	193			400	16
King whiting or "kingfish"			1,600	128				
Mackerel			800	48				
Mullet			1,550	88			1,000	79
Pigfish			400	20				
Pike or pickerel			594	117			7,639	1,375
Pompano			100	25				
cup or porgy			37,600	1,504				
ea bass			200	12				
ea robin			600	6				
had			634,763	95,345				
kates			800	8				
panish mackerel			8,000	960				
pot			79,595	3,695				
queteagues or "sea trout":								
Gray			3,461,551	152,462				
Spotted			1,180	135				
triped bass			399,268	67,392			2,300	436
autog			200	10				
omcod			280	8				
White perch			198,740	15,063			90,321	6,621
Whiting			5,000	200				
ellow perch			14,505	1,319			75,576	6,650
quid			100,000	4,000				
urtles, snapper	1,500	60					100	4
Total	11,640	622	12,951,039	523,112	31,800	3,636	357,788	26,244

Fisheries of Maryland, 1930—Continued

CATCH: BY GEAR—Continued

Species	Dip nets		Cast nets		Pots, eel		Spears		Scrapes	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Carp			24,000	$2,520						
Eels					251,860	$21,957	16,600	$1,244		
Crabs:										
Hard	89,650	$1,585							1,220,485	$21,69
Soft	2,064,758	179,236							3,199,944	270,36
Total	2,154,408	180,821	24,000	2,520	251,860	21,957	16,600	1,244	4,420,429	292,05

Species	Dredges, oyster		Tongs		Rakes		Picks		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Valu*
Clams, hard public			72,360	$36,180	6,400	$3,200	720	$360	1,320	$66
Oysters:										
Market, public, spring	1,127,087	$145,247	3,447,586	399,031						
Market public, fall	2,683,550	347,213	7,964,761	924,858						
Market, private, spring	29,652	4,800	452,060	59,215	7,413	1,000				
Market, private, fall	51,150	7,780	1,320,470	177,828	22,240	3,000				
Seed, public, spring			188,404	11,072						
Terrapin, diamond-back									2,100	1,60
Total	3,891,439	505,040	13,445,641	1,608,184	36,053	7,200	720	360	3,420	2,26

OPERATING UNITS: BY COUNTIES

Item	Anne Arundel	Baltimore	Calvert	Caroline	Cecil	Charles	Dorchester	Harford
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Numbe*
On vessels	7	110	20				397	
On boats and shore—								
Regular	384		129	3	9	98	730	
Casual	370	46	286	45	102	278	192	5
Total	761	156	435	48	111	376	1,319	5
Vessels:								
Motor—5 to 10 tons	2							
Net tonnage	13							
Sail—								
5 to 10 tons			2				88	
11 to 20 tons		3					4	
21 to 30 tons		7	1				3	
31 to 40 tons		4						
41 to 50 tons		3						
51 to 60 tons		1	1					
Total		18	4				95	
Net tonnage		545	88				786	
Total vessels	2	18	4				95	
Total net tonnage	13	545	88				786	
Boats:								
Motor	407	17	183	6	44	141	508	3
Other	139	20	148	21	41	62	258	1
Accessory boats		8						
Apparatus:								
Purse seines	2	4						
Length, yards	600	1,054						
Haul seines	50	6	17	4	9	31	6	
Length, yards	1,688	1,400	3,675	900	2,000	4,655	1,850	1,40

Fisheries of Maryland, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Anne Arundel	Baltimore	Calvert	Caroline	Cecil	Charles	Dorchester	Harford
paratus—Continued.								
Gill nets—	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Anchor			2					
Square yards			1,200					
Drift			1	14	26	50	6	76
Square yards			600	9,200	44,120	181,320	2,400	38,000
Runaround					1		2	
Square yards					600		1,320	
Stake		120	8			470	20	12
Square yards		10,150	240			30,515	530	540
Lines—								
Trot, with baits or snoods	111	26	124			27	331	
Baits or snoods	64,650	14,700	57,600			25,200	253,985	
Trot, with hooks			10	2				
Hooks			250	200				
Pound nets	32	10	38	14	28	54	160	2
Stop nets				4	2			
Square yards				8,100	2,250			
Fyke sets	174	246		60	758	21	16	92
Dip nets	47		95			12	152	
Pots, eel	215	450			374	18	4,124	600
Scrapes							72	
Yards at mouth							72	
Dredges, oyster		36	8				282	
Yards at mouth		58	12				358	
Tongs	646		311			185	519	

Item	Kent	Prince Georges	Queen Annes	St. Marys	Somerset	Talbot	Wicomico	Worcester
ermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	35			18	416	124		
On boats and shore—								
Regular	418	2	588	415	942	672	303	224
Casual	143	39	157	411	97	74	92	99
Total	596	41	745	844	1,455	870	395	323
els:								
Sail—								
5 to 10 tons				2	77	25		
11 to 20 tons	1			1	14	1		
21 to 30 tons	3			1	5	1		
31 to 40 tons	1				2			
41 to 50 tons					1			
Total	5			4	99	27		
Net tonnage	120			53	999	205		
s:								
Motor	262	4	379	330	565	459	200	151
Other	116	21	110	442	814	129	37	66
ssory boats	10					2		
aratus:								
Purse seines	5					7		
Length, yards	1,316					2,042		
Haul seines	22	8	12	7	5	3	1	5
Length, yards	4,493	965	4,536	2,190	3,500	977	480	75
Gill nets—								
Anchor								9
Square yards								1,645
Drift	65	5			5	14	29	12
Square yards	111,000	5,100			6,000	21,660	21,200	7,200
Runaround					2			
Square yards					4,000			
Stake	1,460		126	4	156		188	
Square yards	83,820		13,390	935	4,800		6,740	
Lines—								
Hand								18
Hooks								36

Fisheries of Maryland, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Kent	Prince Georges	Queen Annes	St. Marys	Somerset	Talbot	Wicomico	Worcester
Apparatus—Continued.								
Lines—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Numbe*
Trot, with baits or snoods	245		146	133	63	251	4	4
Baits or snoods	99, 600		78, 600	94, 000	60, 000	187, 800	2, 250	38, 65
Trot, with hooks	10							
Hooks	3, 000							
Pound nets	37	8	17	77	61	96	20	3
Fyke nets	727	71	119			44	12	4
Dip nets	28		91	258	623	82		
Cast nets	3							
Pots, eel	336	30	1, 110		320	4, 835		240
Spears						18		
Scrapes					1, 160			
Yards at mouth					1, 160			
Dredges, oyster				12	278	54		40
Yards at mouth				12	351	73		3
Tongs	366		659	938	203	545	331	146
Rakes								13
Picks								

CATCH: BY COUNTIES

Species	Anne Arundel		Baltimore		Calvert		Caroline	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	406, 494	$5, 250	53, 000	$1, 560	450, 800	$5, 641	10, 800	$16
Black bass	600	120	200	40			100	1
Bluefish	31, 425	2, 968	19, 250	1, 929	200	20		
Butterfish	80	8			200	30		
Carp	13, 022	1, 293	19, 900	1, 990	6, 400	512	11, 700	1, 14
Catfish and bullheads	20, 388	918	56, 436	2, 822	17, 300	865	12, 900	64
Croaker	114, 234	3, 372	3, 124	94	111, 600	2, 486	2, 000	6
Eels	11, 344	1, 244	11, 900	1, 190	50	5	2, 000	16
Flounders	8, 081	358	1, 000	53	2, 900	174		
Gizzard shad	17, 975	386						
Mullet					400	20		
Pike or pickerel	3, 354	671	400	100	150	30		
Shad	25, 969	3, 894	500	75	71, 800	10, 526	1, 150	17
Spot	18, 795	968	1, 200	72	1, 600	86		
Squeteagues or "sea trout":								
Gray	149, 201	9, 467	25, 259	2, 020	51, 100	3, 452	3, 400	27
Spotted	200	24						
Striped bass	68, 340	13, 276	115, 455	18, 720	41, 450	7, 559	12, 500	2, 50
White perch	11, 590	993	23, 600	1, 744	25, 800	2, 104	14, 650	93
Yellow perch	6, 700	670	8, 000	724	800	80	1, 500	15
Crabs:								
Hard	2, 770, 000	56, 620	132, 000	3, 960	671, 400	10, 071		
Soft	42, 699	5, 401			150, 927	13, 584		
Oysters:								
Market, public, spring	825, 200	107, 538	136, 636	18, 432	206, 660	28, 098		
Market, public, fall	1, 343, 517	173, 938	252, 205	34, 022	482, 638	71, 617		
Market, private, spring					103, 693	13, 988		
Market, private, fall					219, 625	32, 589		
Turtles, snapper							1, 600	6
Total	5, 889, 208	389, 377	860, 065	89, 547	2, 617, 493	203, 537	74, 300	6, 29

Fisheries of Maryland, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Cecil		Charles		Dorchester		Harford	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
lewives	112, 000	$1, 680	16, 000	$400	908, 008	$13, 660	223, 000	$3, 945
lack bass	4, 294	774	4, 675	809	--------	--------	--------	--------
luefish	--------	--------	600	60	25, 400	2, 184	--------	--------
arp	59, 530	6, 709	44, 450	3, 185	3, 713	321	2, 800	280
atfish and bullheads	52, 550	2, 627	67, 835	3, 006	27, 034	1, 352	5, 700	285
roaker	--------	--------	6, 550	405	201, 878	5, 238	--------	--------
els	19, 937	1, 994	2, 410	160	65, 240	5, 995	10, 200	1, 020
lounders	--------	--------	400	32	25, 294	1, 095	--------	--------
izzard shad	2, 100	63	7, 500	138	3, 524	141	--------	--------
oldfish or "sand perch"	--------	--------	9, 765	500	--------	--------	--------	--------
ickory shad	1, 000	35	--------	--------	--------	--------	--------	--------
ullet	--------	--------	1, 700	121	400	32	--------	--------
ike or pickerel	1, 659	313	325	63	--------	--------	200	50
had	87, 032	12, 527	23, 805	3, 833	120, 099	17, 990	42, 016	5, 882
pot	--------	--------	600	12	12, 500	731	--------	--------
queteagues or "sea trout", gray	--------	--------	19, 100	1, 530	41, 300	2, 478	--------	--------
triped bass	26, 306	4, 734	56, 985	7, 511	116, 088	19, 484	11, 800	2, 200
hite perch	48, 621	3, 699	41, 445	3, 266	88, 500	6, 456	8, 200	656
ellow perch	10, 676	908	8, 665	772	--------	--------	3, 200	256
rabs:								
Hard	--------	--------	585, 200	8, 758	9, 639, 532	151, 502	--------	--------
Soft	--------	--------	1, 200	150	446, 409	37, 254	--------	--------
ysters:								
Market, public, spring	--------	--------	16, 160	2, 143	827, 120	99, 755	--------	--------
Market, public, fall	--------	--------	97, 885	15, 477	2, 010, 546	247, 113	--------	--------
Market, private, spring	--------	--------	8, 354	1, 240	84, 382	10, 308	--------	--------
Market, private, fall	--------	--------	74, 397	12, 043	180, 136	23, 900	--------	--------
Total	425, 705	36, 063	1, 096, 006	65, 614	14, 827, 103	646, 989	307, 116	14, 574

Species	Kent		Prince Georges		Queen Annes		St. Marys	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
lewives	400, 509	$6, 008	800	$16	67, 200	$1, 024	526, 600	$8, 433
lack bass	1, 310	202	8, 000	1, 300	--------	--------	--------	--------
luefish	29, 486	2, 853	--------	--------	16, 300	1, 630	7, 550	707
utterfish	1, 500	150	--------	--------	1, 200	120	--------	--------
arp	42, 000	4, 616	13, 825	1, 232	2, 500	238	600	48
atfish and bullheads	58, 140	2, 907	18, 500	844	19, 500	980	200	8
roaker	85, 294	2, 559	--------	--------	102, 400	3, 682	60, 800	1, 707
els	10, 410	833	2, 950	274	21, 400	1, 708	800	64
lounders	1, 400	70	--------	--------	2, 000	116	5, 200	339
oldfish or "sand perch"	--------	--------	2, 900	121	--------	--------	--------	--------
ickory shad	--------	--------	--------	--------	--------	--------	2, 850	86
ullet	--------	--------	850	52	--------	--------	--------	--------
ke or pickerel	3, 430	522	1, 100	220	300	50	--------	--------
ad	206, 183	30, 926	2, 839	469	16, 000	2, 400	97, 666	15, 185
ot	12, 600	756	--------	--------	12, 400	850	4, 100	169
ueteagues or "sea trout":								
Gray	275, 487	17, 220	3, 100	248	29, 100	2, 451	41, 000	2, 124
Spotted	--------	--------	--------	--------	--------	--------	180	15
riped bass	474, 183	73, 139	5, 400	850	60, 600	10, 674	98, 300	19, 588
hite perch	65, 700	4, 645	8, 600	620	21, 340	1, 696	19, 750	1, 647
ellow perch	31, 080	2, 586	7, 170	660	16, 500	1, 496	3, 125	248
abs:								
Hard	2, 684, 800	40, 272	--------	--------	1, 804, 200	27, 263	1, 432, 000	26, 280
Soft	33, 941	4, 073	--------	--------	56, 700	6, 329	98, 510	10, 820
sters:								
Market, public, spring	290, 775	23, 074	--------	--------	627, 696	63, 227	126, 132	13, 375
Market, public, fall	850, 086	75, 322	--------	--------	1, 539, 495	154, 916	549, 437	59, 503
Market, private, spring	--------	--------	--------	--------	--------	--------	9, 637	1, 145
Market, private, fall	--------	--------	--------	--------	8, 896	960	41, 142	5, 000
Seed, public, spring	188, 404	11, 072	--------	--------	--------	--------	--------	--------
Total	5, 746, 718	303, 805	76, 034	6, 906	4, 425, 727	281, 810	3, 125, 579	166, 491

Fisheries of Maryland, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Somerset		Talbot		Wicomico		Worcester	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	482,000	$6,830	1,997,896	$29,974	74,200	$1,294	12,000	$240
Bluefish	42,200	4,196	46,400	4,604	400	40	48,400	4,840
Bonito							5,200	416
Butterfish	10,000	600			2,500	210	600,000	36,000
Cabio or crab eater							200	10
Carp			2,600	212	2,400	192	800	64
Catfish and bullheads	6,200	310	16,400	936	16,100	805	3,800	190
Croaker	611,100	20,344	302,000	6,940	106,200	3,186	406,600	12,198
Drum:								
Black							40,000	500
Red or redfish	1,000	27					15,000	300
Eels	5,800	580	126,400	10,010	200	16	23,320	1,862
Flounders	10,100	462	2,400	132	3,800	190	39,800	1,990
Gizzard shad	900	36						
Hickory shad	1,500	60			1,200	48		
King whiting or "kingfish"							1,600	128
Mackerel							800	48
Mullet					800	40	18,000	916
Pigfish							400	20
Pompano							100	25
Scup or porgy							60,000	2,400
Sea bass							20,200	1,212
Sea robin							600	6
Shad	110,800	16,619	163,701	24,555	18,876	3,189	10,000	1,500
Skates							800	8
Spanish mackerel	200	50					8,000	960
Spot	9,600	476	2,700	177	8,200	492	42,000	1,680
Squeteagues or "sea trout":								
Gray	110,100	5,606	146,200	10,160	22,100	1,432	2,837,200	113,808
Spotted	3,200	384						
Striped bass	17,000	3,064	109,443	17,697	13,740	2,513	400	60
Tautog							200	10
Tomcod							280	8
White perch	10,750	702	21,700	1,774	10,000	798		
Whiting							5,000	200
Yellow perch			10,100	1,010				
Crabs:								
Hard	3,013,635	54,906	7,871,400	128,941	71,600	1,432	950,000	19,000
Soft	4,392,387	369,875	71,563	5,998			18,680	1,682
Squid							100,000	4,000
Clams, hard, public							80,800	40,400
Oysters:								
Market, public, spring	537,635	73,416	783,495	88,623	197,164	26,597		
Market, public, fall	1,267,119	172,852	1,702,640	192,747	552,743	74,564		
Market, private, spring	69,193	9,334			75,983	8,200	137,883	20,800
Market, private, fall	153,197	20,666	74,871	9,090	269,463	29,080	372,133	55,280
Terrapin, diamond-back	1,800	1,300	300	300				
Total	10,867,416	762,795	13,452,209	533,880	1,447,669	154,308	5,860,196	322,761

Industries related to the fisheries of Maryland, 1930

TRANSPORTING

Item	Anne Arundel County	Baltimore County	Calvert County	Dorchester County	St. Marys County	Somerset County	Talbot County	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
ersons engaged on vessels	49	20	19	76	9	153	28	354
essels:								
Motor—								
5 to 10 tons	15	1	5	13	1	31	7	73
11 to 20 tons	6	1	1	9	--------	23	4	44
21 to 30 tons	2	--------	2	3	--------	12	2	21
31 to 40 tons	--------	--------	1	3	--------	5	--------	9
41 to 50 tons	--------	1	--------	3	--------	--------	--------	4
Total	23	3	9	31	1	71	13	151
Net tonnage	260	75	126	554	9	1, 045	158	2, 227
Sail—								
5 to 10 tons	--------	--------	--------	1	--------	1	1	3
11 to 20 tons	1	--------	--------	1	1	3	--------	6
21 to 30 tons	--------	--------	--------	2	2	--------	1	5
31 to 40 tons	--------	--------	--------	1	--------	1	--------	2
41 to 50 tons	--------	1	--------	1	--------	1	--------	3
51 to 60 tons	--------	2	--------	--------	--------	--------	--------	2
71 to 80 tons	--------	1	--------	--------	--------	--------	--------	1
81 to 90 tons	--------	1	--------	--------	--------	--------	--------	1
Total	1	5	--------	6	3	6	2	23
Net tonnage	12	303	--------	152	63	146	31	707
Total vessels	24	8	9	37	4	77	15	174
Total net tonnage	272	378	126	706	72	1, 191	189	2, 934

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Anne Arundel County	Baltimore County	Calvert County	Caroline and Dorchester Counties	Cecil and Harford Counties	Kent County	Queen Annes County
stablishments	11	60	9	35	7	11	14
ersons engaged:							
Proprietors	17	81	11	47	6	15	17
Salaried employees	4	133	1	22	3	2	--------
Wage earners—							
Average for season	293	714	137	1, 552	143	108	280
Average for year	180	363	79	633	27	54	153
aid to salaried employees	$6, 293	$210, 705	$1, 120	$36, 028	$760	$2, 340	--------
aid to wage earners	79, 773	334, 519	32, 810	302, 476	10, 980	26, 336	$59, 255
Total, salaries and wages	86, 066	545, 224	33, 930	338, 504	11, 740	28, 676	59, 255

Item	Charles and St. Marys Counties	Somerset County	Talbot County	Wicomico County	Worcester County	Total
stablishments	7	137	19	6	7	323
ersons engaged:						
Proprietors	9	261	31	5	9	509
Salaried employees	1	41	6	3	--------	216
Wage earners—						
Average for season	142	1, 749	777	179	47	6, 121
Average for year	47	868	389	68	30	2, 891
aid to salaried employees	$600	$42, 643	$4, 265	$1, 480	--------	$306, 234
aid to wage earners	21, 865	418, 228	126, 277	19, 421	$18, 050	1, 449, 990
Total, salaries and wages	22, 465	460, 871	130, 542	20, 901	18, 050	1, 756, 224

Industries related to the fisheries of Maryland, 1930—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Alewives:		
Corned ... pounds	116,800	$3,990
Pickled ... do	404,826	19,716
Salted, tight-pack ... do	2,157,400	53,245
Canned ... standard cases	38,493	117,581
Roe, canned ... do	14,975	82,581
Crab meat, packaged (fresh-cooked) ... pounds	3,351,023	939,945
Oysters:		
Fresh-shucked ... gallons	1,835,283	2,958,141
Shell products—		
Poultry feed ... tons	40,625	310,263
Lime ... do	20,080	50,944
Miscellaneous [1]	(2)	619,185
Total	------	5,155,591

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 52]

Item	Quantity	Value
Alewives, salted ... pounds	40,000	$1,800
Eels, salted ... do	63,400	6,340
Total	103,400	8,140

[1] Includes smoked alewives, butterfish, carp, cisco, eels, herring, lake trout, salmon, shad, and sturgeon; corned shad; canned terrapin meat and oysters; dry scrap and oil from alewife cuttings and waste; dry scrap from blue crab shells; and marine-shell products.

[2] Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products 49 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

VIRGINIA

Fisheries of Virginia, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines, menhaden	Haul seines	Gill nets			Lines, trot, with baits or snoods	Pound nets	Fyke nets	Dip nets	Otter trawls
			Anchor	Drift	Stake					
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:										
On vessels	1,036	------	------	------	------	------	6	------	------	46
On boats and shore—										
Regular	------	398	2	519	264	1,335	1,242	82	467	------
Casual	------	221	------	390	260	71	1,101	81	245	------
Total	1,036	619	2	909	524	1,406	2,349	163	712	46
Vessels:										
Steam—										
61 to 70 tons	2	------	------	------	------	------	------	------	------	------
71 to 80 tons	1	------	------	------	------	------	------	------	------	------
81 to 90 tons	5	------	------	------	------	------	------	------	------	------
91 to 100 tons	3	------	------	------	------	------	------	------	------	------
101 to 110 tons	3	------	------	------	------	------	------	------	------	------
111 to 120 tons	2	------	------	------	------	------	------	------	------	------
131 to 140 tons	2	------	------	------	------	------	------	------	------	------
141 to 150 tons	1	------	------	------	------	------	------	------	------	------
151 to 160 tons	2	------	------	------	------	------	------	------	------	------
161 to 170 tons	2	------	------	------	------	------	------	------	------	------

Fisheries of Virginia, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Purse seines, menhaden	Haul seines	Gill nets			Lines, trot, with baits or snoods	Pound nets	Fyke nets	Dip nets	Otter trawls
			Anchor	Drift	Stake					
Vessels—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Steam—Continued.										
171 to 180 tons	1									
191 to 200 tons	1									
Total	25									
Net tonnage	2,902									
Motor—										
5 to 10 tons							1			2
11 to 20 tons										9
21 to 30 tons										1
61 to 70 tons	1									
71 to 80 tons	3									
131 to 140 tons	1									
181 to 190 tons	1									
Total	6						1			12
Net tonnage	609						7			173
Total vessels	31						1			12
Total net tonnage	3,511						7			173
Boats.										
Motor		159	1	235	172	1,094	731	106	227	
Other		162	1	424	302	283	377	62	470	
Accessory boats	62									
Apparatus:										
Number	31	187	1	652	16,453	1,386	2,262	1,084	712	12
Length, yards	8,720	59,430								
Square yards			9,600	663,042	607,190					
Yards at mouth										358
Hooks, baits, or snoods						662,440				

Item	Pots, eel	Scrapes	Dredges			Tongs	Rakes	Picks	By hand	Total, exclusive of duplication
			Crab	Oyster	Scallop					
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			148	205		11				1,452
On boats and shore—										
Regular	8	326	18	164	443	3,092	948	477	450	5,718
Casual		12		12	36	1,707				3,694
Total	8	338	166	381	479	4,810	948	477	450	10,864
Vessels:										
Steam—										
61 to 70 tons										2
71 to 80 tons										1
81 to 90 tons										5
91 to 100 tons										3
101 to 110 tons										3
111 to 120 tons										2
131 to 140 tons										2
141 to 150 tons										1
151 to 160 tons										2
161 to 170 tons										2
171 to 180 tons										1
191 to 200 tons										1
Total										25
Net tonnage										2,902

Fisheries of Virginia, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Pots, eel	Scrapes	Dredges			Tongs	Rakes	Picks	By hand	Total, exclusive of duplication
			Crab	Oyster	Scallop					
Vessels—Continued.										
Motor—										
5 to 10 tons			38	6		4				51
11 to 20 tons			6	9						24
21 to 30 tons			1	1						3
41 to 50 tons				1						1
61 to 70 tons										1
71 to 80 tons										3
131 to 140 tons										1
181 to 190 tons										1
Total			45	17		4				85
Net tonnage			389	233		29				1, 440
Sail—										
5 to 10 tons				24						24
11 to 20 tons				3						3
Total				27						27
Net tonnage				219						219
Total vessels			45	44		4				137
Total net tonnage			389	452		29				4, 561
Boats:										
Motor	8		6	56	348	2, 928	73		12	4, 530
Other		256		28	193	748	858	421	438	3, 168
Accessory boats										62
Apparatus:										
Number	640	618	102	256	924	4, 820	948	477		31, 627
Yards at mouth		618	182	293	617					

CATCH: BY GEAR

Species	Purse seines, menhaden		Haul seines		Gill nets			
					Anchor		Drift	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			33, 400	$668			18, 400	$359
Bluefish			19, 600	1, 896			4, 000	360
Butterfish			5, 300	265				
Carp			126, 300	5, 947				
Catfish and bullheads			139, 100	5, 191				
Croaker			931, 000	23, 781	18, 000	$540	316, 400	8, 390
Drum, red or redfish			10, 275	410			1, 200	36
Flounders			33, 150	1, 618				
Gizzard shad			61, 700	1, 406			6, 000	200
Hickory shad			1, 200	48			13, 100	524
Menhaden	114, 953, 600	$762, 190						
Mullet							90, 900	3, 825
Pigfish			44, 000	2, 208			13, 000	650
Pike or pickerel			80	20				
Pompano			2, 000	400				
Shad			14, 100	2, 115			758, 498	115, 582
Spanish mackerel			16, 300	2, 445			6, 000	850
Spot			1, 749, 000	87, 623			95, 800	4, 523
Squeteagues or "sea trout":								
Gray			641, 300	40, 734			30, 600	1, 801
Spotted			194, 800	23, 385				
Striped bass			65, 860	9, 919			45, 300	7, 195
White perch			53, 000	2, 841				
Whiting			3, 600	148				
Yellow perch			5, 460	372				
Total	114, 953, 600	762, 190	4, 150, 525	213, 440	18, 000	540	1, 399, 198	144, 295

Fisheries of Virginia, 1930—Continued

CATCH: BY GEAR—Continued

Species	Gill nets, stake		Lines, trot with baits or snoods		Pound nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	2,000	$38			15,220,718	$178,205
Bluefish					206,166	13,898
Bonito					43,615	2,181
Butterfish					3,668,698	163,360
Carp					15,850	780
Catfish and bullheads					32,300	1,583
Cod					49,743	1,193
Croaker	5,000	150			17,492,421	390,002
Drum:						
Black					24,370	517
Red or redfish					24,725	991
Eels					28,800	2,624
Flounders	8,500	425			258,450	11,741
Gizzard shad	600	20			12,150	356
Harvestfish or "starfish"					400	20
Hickory shad	1,000	20			67,800	2,196
King whiting or "kingfish"					2,400	120
Mackerel					47,874	4,747
Menhaden					888,000	5,020
Mullet	2,000	80			100	5
Pigfish	100	6			11,600	580
Scup or porgy					91,997	3,680
Sea bass					20,207	1,390
Shad	710,967	111,109			4,639,844	751,259
Skates					1,800	27
Spanish mackerel					27,850	3,185
Spot	2,500	163			589,235	28,671
Squeteagues or "sea trout":						
Gray	25,500	1,742			14,660,362	528,790
Spotted					3,200	384
triped bass	63,000	10,310			192,550	31,001
turgeon					2,000	600
Tautog					800	32
White perch					58,100	3,046
Whiting					17,255	707
Crabs, hard			20,113,470	$373,069		
quid					125,345	3,847
Total	821,167	124,063	20,113,470	373,069	58,526,725	2,136,738

Species	Fyke nets		Dip nets		Otter trawls		Pots, eel	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
lewives	112,500	$2,263						
luefish	200	24			40	$4		
utterfish	500	25			507	25		
arp	100,600	5,030						
atfish and bullheads	236,387	8,697						
od					360	7		
roaker	182,600	5,417			962,780	34,483		
els	5,965	514					40,000	$3,488
lounders	10,000	485			249,464	11,745		
izzard shad	55,300	1,252						
ake					1,422	42		
ickory shad	800	40						
ing whiting or "kingfish"					589	24		
up or porgy					311,517	16,781		
a bass					171,366	13,089		
ad	59,600	9,060						
ot	1,400	74			55,000	3,820		
ueteagues or "sea trout," gray	28,200	2,150			126,427	5,491		
riped bass	58,465	8,651						
urgeon					2,590	780		
hite perch	84,550	3,850			595	24		
hiting	800	40			52	2		
llow perch	41,200	3,228						
abs:								
Hard			308,400	$5,397				
Soft			897,040	75,967				
uid					38	2		
Total	979,067	50,800	1,205,440	81,364	1,882,747	86,319	40,000	3,488

Fisheries of Virginia, 1930—Continued

CATCH: BY GEAR—Continued

Species	Scrapes		Dredges					
			Crab		Oyster		Scallops	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs:								
Hard	1, 024, 000	$15, 360	7, 494, 000	$149, 230				
Soft	1, 983, 960	119, 038						
Oysters:								
Market, public, spring					81, 634	$11, 900		
Market, public, fall					296, 557	43, 130		
Market, private, spring					940, 314	111, 876		
Market, private, fall					3, 287, 751	393, 033		
Scallops, bay							1, 824, 948	$147, 56
Total	3, 007, 960	134, 398	7, 494, 000	149, 230	4, 606, 256	559, 939	1, 824, 948	147, 56

Species	Tongs		Rakes		Picks		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams, hard, public	1, 018, 424	$321, 592	132, 400	$44, 075	18, 712	$7, 204	43, 200	$18, 90
Oysters:								
Market, public, spring	1, 492, 681	173, 090	6, 860	500				
Market, public, fall	4, 526, 393	522, 843	20, 580	1, 500				
Market, private, spring	1, 896, 680	223, 588	133, 468	10, 103			10, 290	75
Market, private, fall	6, 356, 188	747, 073	537, 611	40, 309			30, 870	2, 25
Seed, public, spring	2, 509, 715	125, 483						
Seed, public, fall	5, 537, 205	280, 605						
Total	23, 337, 286	2, 394, 274	830, 919	96, 487	18, 712	7, 204	84, 360	21, 90

OPERATING UNITS: BY COUNTIES

Item	Accomac	Alexandria	Caroline	Charles City	Chesterfield	Dinwiddie	Elizabeth City	Essex	Fairfax
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	41						96		
On boats and shore—									
Regular	1, 255			231			344		
Casual	282	18	10		14	10		144	3
Total	1, 578	18	10	231	14	10	440	144	3
Vessels:									
Motor—									
5 to 10 tons	1						15		
11 to 20 tons							9		
21 to 30 tons							1		
Total	1						25		
Net tonnage	6						279		
Sail, 5 to 10 tons	9								
Net tonnage	62								
Total vessels	10						25		
Total net tonnage	68						279		
Boats:									
Motor	768	10		2	5	2	114	45	2
Other	782		5	165	4	7	26	61	1
Apparatus:									
Haul seines	8			9	3			7	
Length, yards	3, 280			2, 700	600			1, 960	84
Gill nets—									
Anchor	1								
Square yards	9, 600								
Drift	4	8	5	231	7		11	10	
Square yards	7, 600	14, 400	6, 000	254, 100	4, 200		9, 900	7, 000	10, 80
Stake	145			40		330			
Square yards	2, 400			1, 320		6, 600			
Lines, trot, with baits or snoods	267						14		
Baits or snoods	146, 800						10, 500		

Fisheries of Virginia, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Accomac	Alexandria	Caroline	Charles City	Chesterfield	Dinwiddie	Elizabeth City	Essex	Fairfax
pparatus—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Pound nets	326						365	6	
Fyke nets	5	11	2	21				4	340
Dip nets	290								
Otter trawls							5		
Yards at mouth							150		
Pots, eel	640								
Scrapes	618								
Yards at mouth	618								
Dredges—									
Crab							32		
Yards at mouth							56		
Oyster	122						8	6	
Yards at mouth	130						13	6	
Scallop	697								
Yards at mouth	465								
Tongs	819						60	106	
Rakes	474								
Picks	168								

Item	Gloucester	Henrico	Isle of Wight	James City	King and Queen	King George	King William	Lancaster	Mathews
ishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	3							322	18
On boats and shore—									
Regular	193		402	101		29		295	308
Casual	334	200			57	59	83	522	378
Total	530	200	402	101	57	88	83	1, 139	704
essels:									
Steam—									
61 to 70 tons								2	
81 to 90 tons								1	
91 to 100 tons								1	
141 to 150 tons								1	
Total								5	
Net tonnage								463	
Motor—									
5 to 10 tons	1							2	2
11 to 20 tons								2	2
61 to 70 tons								1	
71 to 80 tons								3	
Total	1							8	4
Net tonnage	8							329	36
Total vessels	1							13	4
Total net tonnage	8							792	36
oats:									
Motor	338	20	279	39		40	10	439	363
Other	126	150	91	40	49	38	68	33	32
ccessory boats								18	
pparatus:									
Purse seines, menhaden								9	
Length, yards								2, 430	
Haul seines		20	3	2		2	2	3	
Length, yards		4, 000	600	600		1, 300	400	600	
Gill nets—									
Drift	18		12	19	42		54	3	10
Square yards	13, 200		4, 800	19, 200	37, 800		54, 000	1, 800	11, 000
Stake		1, 700	8, 400	2, 620		237			
Square yards		51, 000	278, 640	78, 600		54, 550			
Lines, trot, with baits or snoods	78		77			17		86	130
Baits or snoods	44, 800		38, 500			4, 250		34, 400	104, 000
Pound nets	95		20			25		231	463
Fyke nets	12		136	54	4	46	8	8	
Dip nets									147
Dredges—									
Oyster								8	8
Yards at mouth								11	11
Tongs	450		336	15		29	20	510	194

Fisheries of Virginia, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Middlesex	Nansemond	New Kent	Norfolk	Northampton	Northumberland	Prince George	Princess Anne
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:								
On vessels	5			26	3	767		
On boats and shore—								
Regular	200	50	68	95	589	505		66
Casual	543	121		111	30	418	37	
Total	748	171	68	232	622	1, 690	37	66
Vessels:								
Steam—								
71 to 80 tons						1		
81 to 90 tons						4		
91 to 100 tons						2		
101 to 110 tons						3		
111 to 120 tons						2		
131 to 140 tons						2		
151 to 160 tons						2		
161 to 170 tons						2		
171 to 180 tons						1		
191 to 200 tons						1		
Total						20		
Net tonnage						2, 439		
Motor—								
5 to 10 tons	1							
11 to 20 tons				3	1			
21 to 30 tons				1				
41 to 50 tons				1				
131 to 140 tons						1		
181 to 190 tons						1		
Total	1			5	1	2		
Net tonnage	8			114	11	317		
Sail, 5 to 10 tons						8		
Net tonnage						58		
Total vessels	1			5	1	30		
Total net tonnage	8			114	11	2, 814		
Boats:								
Motor	474	76	16	20	331	377	16	31
Other	6	28	39	169	513	400	13	12
Accessory boats						44		
Apparatus:								
Purse seines, menhaden						22		
Length, yards						6, 290		
Haul seines	9		3	7	15		6	2
Length, yards	2, 700		800	2, 750	5, 020		1, 800	500
Gill nets—								
Drift	2	1	60		45		32	
Square yards	1, 200	300	60, 000		15, 960		25, 600	
Stake		1, 180		90				
Square yards		57, 200		7, 200				
Lines, trot, with baits or snoods	97	21		89	106	264		
Baits or snoods	24, 250	4, 200		35, 600	54, 600	83, 200		
Pound nets	21			13	131	368		6
Fyke nets		21	14		1		35	
Dip nets						275		
Otter trawls				1				
Yards at mouth				30				
Dredges—								
Crab					2			
Yards at mouth					3			
Oyster	2			8		30		
Yards at mouth	3			12		34		
Scallop					227			
Yards at mouth					152			
Tongs	628	130		127	229	251		46
Rakes					304			
Picks					309			

Fisheries of Virginia, 1930—Continued

OPERATING UNITS: By counties—Continued

Item	Prince William	Richmond	Spotsylvania	Stafford	Surry	Warwick	Westmoreland	York
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels							51	120
On boats and shore—								
Regular	42				39	302	154	450
Casual	38	108	13	36		4	70	18
Total	80	108	13	36	39	306	275	588
Vessels:								
Motor—								
5 to 10 tons							2	27
11 to 20 tons								7
21 to 30 tons								1
Total							2	35
Net tonnage							15	317
Sail—								
5 to 10 tons							7	
11 to 20 tons							3	
Total							10	
Net tonnage							99	
Total vessels							22	35
Total net tonnage							114	317
Boats:								
Motor	31	35	13	15	26	166	95	308
Other	10	35		4	10	13	46	179
Apparatus:								
Haul seines	14			4	9		7	47
Length, yards	1, 680			600	2, 700		1, 200	22, 800
Gill nets—								
Drift	18	16		5	8		4	21
Square yards	30, 062	26, 720		9, 000	8, 400		4, 800	25, 200
Stake	1			20	1, 384	306		
Square yards	1, 000			9, 320	44, 960	14, 400		
Lines, trot, with baits or snoods		1	6	2		8	64	59
Baits or snoods		400	1, 480	460		4, 000	25, 600	45, 400
Pound nets		30		6		56	64	36
Fyke nets	207	6	40	44	18	17	19	11
Otter trawls								6
Yards at mouth								178
Dredges—								
Crab								68
Yards at mouth								123
Oyster		2					62	
Yards at mouth		2					71	
Tongs		62				273	139	396
Rakes								170

CATCH: By counties

Species	Accomac		Alexandria		Caroline		Charles City	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	898, 900	$13, 484			1, 500	$30	16, 800	$336
Bluefish	57, 000	4, 231						
Bonito	6, 800	340						
Butterfish	1, 537, 975	61, 864						
Carp							43, 000	2, 150
Catfish and bullheads			1, 800	$72	300	15	28, 800	864
Cod	20, 800	624						
Croaker	2, 159, 130	64, 794						
Drum:								
Black	20, 370	407						
Red or redfish	10, 800	431						
Eels	56, 900	4, 840			200	10		
Flounders	40, 100	1, 891						

Fisheries of Virginia, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Accomac		Alexander		Caroline		Charles City	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Gizzard shad							24, 200	$484
Harvestfish or "starfish"	400	$20						
Mackerel	3, 200	320						
Mullet	100	5						
Pigfish	1, 400	79						
Scup or porgy	27, 100	1, 084						
Sea bass	11, 300	678						
Shad	304, 600	45, 700	5, 940	$990	1, 200	$240	539, 700	80, 955
Skates	1, 800	2						
Spanish mackerel	1, 600	160						
Spot	45, 700	2, 363						
Squeteagues or "sea trout":								
Gray	5, 543, 661	169, 688						
Spotted	300	45						
Striped bass	8, 650	1, 675					34, 900	5, 236
Sturgeon	1, 000	300						
Tautog	800	32						
White perch	5, 000	338			500	25	6, 150	185
Whiting	15, 500	620						
Yellow perch			2, 400	192				
Crabs:								
Hard	5, 881, 670	132, 896						
Soft	2, 511, 000	158, 565						
Squid	8, 800	352						
Clams, hard, public	368, 976	157, 044						
Oysters:								
Market, public, spring	144, 623	19, 582						
Market, public, fall	386, 547	51, 848						
Market, private, spring	892, 246	100, 920						
Market, private, fall	2, 676, 738	302, 760						
Scallops, bay	1, 442, 988	121, 900						
Total	25, 094, 474	1, 421, 907	10, 140	1, 254	3, 700	320	693, 550	90, 210

Species	Chesterfield		Dinwiddie		Elizabeth City		Essex	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	3, 000	$60			730, 000	$7, 300	14, 400	$288
Bluefish					17, 500	1, 750		
Bonito					1, 000	50		
Butterfish					565, 000	22, 600		
Carp	4, 700	165					13, 500	675
Catfish and bullheads	3, 200	96					20, 100	1, 005
Cod					6, 300	126		
Croaker					7, 798, 000	162, 040	20, 500	615
Flounders					68, 650	3, 793		
Gizzard shad	2, 300	46			200	10		
Hickory shad					9, 000	360		
Scup or porgy					128, 000	8, 240		
Sea bass					34, 000	3, 300		
Shad	11, 400	1, 710	4, 400	$660	730, 000	109, 500	1, 500	225
Spanish mackerel					18, 250	1, 825		
Spot					151, 000	6, 160	1, 400	70
Squeteagues or "sea trout," gray					793, 200	24, 774		
Striped bass	1, 400	210	800	120	13, 000	1, 560		
Sturgeon					1, 000	300		
White perch	1, 200	60			3, 650	108	7, 200	576
Crabs, hard					2, 576, 000	48, 160		
Clams, hard, public					113, 600	35, 500		
Oysters:								
Market, public, spring					17, 664	1, 545	36, 907	5, 380
Market, public, fall					32, 928	2, 880	115, 687	16, 864
Market, private, spring					114, 130	13, 308	31, 597	4, 606
Market, private, fall					255, 528	24, 751	178, 277	25, 988
Seed, public, spring					65, 001	3, 250		
Seed, public, fall					130, 003	6, 500		
Total	27, 200	2, 347	5, 200	780	14, 372, 604	489, 690	441, 068	56, 292

Fisheries of Virginia, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Fairfax		Gloucester		Henrico		Isle of Wight	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	--------	--------	46,600	$498	8,000	$160	70,000	$1,400
Bluefish	--------	--------	1,800	180	--------	--------	--------	--------
Butterfish	--------	--------	8,900	445	--------	--------	--------	--------
Carp	--------	--------	--------	--------	10,000	500	43,500	2,175
Catfish and bullheads	93,687	$3,744	--------	--------	8,500	255	43,000	1,290
Croaker	--------	--------	2,993,200	59,876	--------	--------	164,000	4,920
Drum:								
Black	--------	--------	600	18	--------	--------	--------	--------
Red or redfish	--------	--------	200	10	--------	--------	--------	--------
Eels	--------	--------	--------	--------	--------	--------	1,500	120
Flounders	--------	--------	9,000	450	--------	--------	18,500	925
Gizzard shad	--------	--------	1,800	90	9,000	180	25,000	500
Hickory shad	--------	--------	5,300	164	--------	--------	1,000	20
King whiting or "kingfish"	--------	--------	2,400	120	--------	--------	--------	--------
Mullet	--------	--------	--------	--------	--------	--------	8,500	340
Shad	3,900	630	132,600	19,890	38,000	5,700	349,400	52,410
Spot	--------	--------	75,600	3,780	--------	--------	--------	--------
Squeteagues or "sea trout," gray	--------	--------	1,666,400	50,040	--------	--------	45,000	3,150
Striped bass	--------	--------	400	60	8,400	1,260	44,200	6,630
White perch	12,400	744	2,200	132	--------	--------	33,000	1,030
Yellow perch	18,000	1,440	500	40	2,000	100	--------	--------
Crabs, hard	--------	--------	1,420,000	22,400	--------	--------	192,500	3,012
Clams, hard, public	--------	--------	40,960	12,800	--------	--------	--------	--------
Oysters:								
Market, public, spring	--------	--------	116,599	13,089	--------	--------	252,530	22,086
Market, public, fall	--------	--------	235,806	26,470	--------	--------	757,605	55,219
Market, private, spring	--------	--------	54,880	6,355	--------	--------	222,950	19,500
Market, private, fall	--------	--------	164,640	19,065	--------	--------	668,850	58,500
Seed, public, spring	--------	--------	105,002	5,250	--------	--------	722,514	36,125
Seed, public, fall	--------	--------	215,004	10,750	--------	--------	1,806,297	90,315
Total	127,987	6,558	7,300,391	251,972	83,900	8,155	5,469,846	359,665

Species	James City		King and Queen		King George		King William	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	25,800	$516	1,200	$36	22,600	$408	2,800	$56
Carp	21,500	1,075	--------	--------	--------	--------	--------	--------
Catfish and bullheads	18,500	555	1,500	75	13,200	528	2,200	110
Croaker	8,400	252	500	15	--------	--------	2,000	64
Flounders	--------	--------	--------	--------	--------	--------	800	48
Gizzard shad	14,800	296	--------	--------	--------	--------	--------	--------
Hickory shad	--------	--------	10,800	432	--------	--------	3,000	120
Shad	255,900	38,835	17,940	2,691	12,840	2,175	28,650	4,295
Squeteagues or "sea trout," gray	8,000	800	600	30	--------	--------	500	25
Striped bass	25,500	3,825	2,400	360	18,260	3,539	2,200	210
White perch	9,600	422	1,200	60	8,000	480	1,800	90
Yellow perch	--------	--------	800	64	2,600	208	500	40
Crabs, hard	--------	--------	--------	--------	102,000	2,040	--------	--------
Oysters:								
Market, public, spring	--------	--------	--------	--------	4,445	648	4,802	420
Market, public, fall	--------	--------	--------	--------	13,459	1,962	15,092	1,760
Market, private, spring	--------	--------	--------	--------	--------	--------	61,740	7,200
Market, private, fall	--------	--------	--------	--------	--------	--------	185,220	21,600
Seed, public, spring	35,001	1,750	--------	--------	--------	--------	--------	--------
Seed, public, fall	65,001	3,250	--------	--------	--------	--------	--------	--------
Total	488,002	51,576	36,940	3,763	197,404	11,988	311,304	36,038

Species	Lancaster		Matthews		Middlesex		Nansemond	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	1,496,500	$14,971	1,626,000	$16,260	51,500	$1,030	1,600	$32
Bluefish	9,460	757	21,250	1,700	--------	--------	--------	--------
Butterfish	480,000	33,600	2,100	105	--------	--------	--------	--------
Carp	1,800	90	--------	--------	12,000	480	--------	--------
Catfish and bullheads	2,500	125	--------	--------	2,000	80	400	20
Croaker	301,200	9,036	1,226,400	24,688	256,500	5,305	49,200	1,476
Eels	2,800	224	--------	--------	--------	--------	--------	--------
Flounders	50,400	2,040	25,800	1,032	1,200	60	--------	--------
Gizzard shad	1,000	40	950	36	--------	--------	6,600	220
Hickory shad	2,200	88	--------	--------	--------	--------	--------	--------

Fisheries of Virginia, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Lancaster		Matthews		Middlesex		Nansemond	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Menhaden	30, 578, 600	$202, 804						
Pigfish			1, 700	$85				
Pike or pickerel					80	$20		
Shad	930, 884	126, 221	1, 100, 030	220, 060	48, 200	7, 230	35, 800	$8, 950
Spanish mackerel			800	80				
Spot	90, 600	4, 530	48, 200	1, 648	16, 000	800		
Squeteagues or "sea trout," gray	315, 400	9, 474	1, 322, 700	39, 761	27, 700	1, 385		
Striped bass	21, 750	3, 262	1, 400	210	20, 500	3, 075	400	60
White perch	9, 200	552	700	42	11, 000	330	200	20
Whiting	1, 200	60						
Yellow perch	700	70						
Crabs:								
Hard	856, 400	12, 846	2, 175, 000	32, 625	730, 000	14, 600	105, 000	2, 100
Soft			50, 000	4, 440				
Oysters:								
Market, public, spring	206, 417	30, 090	38, 690	5, 076	239, 675	34, 938	70, 315	6, 030
Market, public, fall	564, 647	82, 310	195, 236	25, 614	719, 010	104, 812	210, 945	15, 375
Market, private, spring	59, 682	8, 700	20, 580	2, 400	129, 201	18, 834	161, 896	14, 160
Market, private, fall	1, 222, 315	178, 180	322, 420	37, 600	258, 389	37, 666	620, 144	45, 200
Seed, public, spring					20, 000	1, 000	16, 500	825
Seed, public, fall					40, 001	2, 000	64, 001	3, 200
Total	37, 205, 655	720, 070	8, 179, 956	413, 462	2, 582, 956	233, 645	1, 343, 001	97, 668

Species	New Kent		Norfolk		Northampton		Northumberland	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	7, 200	$144	19, 500	$293	57, 600	$897	9, 762, 711	$114, 289
Bluefish			440	44	92, 156	4, 720	10, 400	832
Bonito					35, 815	1, 791		
Butterfish			10, 507	525	1, 016, 823	40, 673	21, 400	1, 498
Carp	12, 000	600						
Catfish and bullheads	6, 000	180						
Cod			3, 360	67	19, 643	383		
Croaker			596, 780	13, 883	1, 174, 291	35, 311	1, 292, 400	35, 932
Drum, black					2, 400	72		
Eels					9, 865	1, 163	1, 800	144
Flounders			10, 064	545	57, 750	2, 852	38, 800	1, 675
Gizzard shad	6, 500	140						
Hake			1, 422	42				
Hickory shad	800	40					51, 800	1, 604
King whiting or "kingfish"			589	24				
Mackerel					44, 674	4, 427		
Menhaden					48, 000	340	85, 215, 000	564, 066
Mullet					84, 400	3, 565		
Pigfish			200	10	1, 400	70		
Scup or porgy			13, 517	541	64, 897	2, 596		
Sea bass			7, 366	589	8, 907	712		
Shad	61, 800	10, 070	32, 450	5, 841	13, 407	2, 061	1, 037, 023	162, 143
Spanish mackerel					200	20		
Spot			1, 417, 000	70, 850	122, 135	7, 416	4, 100	222
Squeteagues or "sea trout":								
Gray			118, 527	5, 706	5, 007, 351	245, 970	338, 900	12, 572
Spotted			44, 500	5, 340				
Striped bass	7, 500	1, 125			6, 065	923	78, 600	13, 848
Sturgeon			90	30				
White perch	2, 300	115	595	24			2, 000	112
Whiting			3, 252	130	1, 755	87		
Yellow perch	100	10						
Crabs:								
Hard			1, 441, 800	26, 045	1, 316, 100	25, 572	3, 472, 500	52, 087
Soft							320, 000	32, 000
Squid			38	2	116, 545	3, 495		
Clams, hard, public					105, 600	40, 007		
Oysters:								
Market, public, spring					2, 278	232	62, 928	9, 173
Market, public, fall					6, 846	698	235, 346	34, 252
Market, private, spring			678, 008	74, 068	142, 098	10, 362	110, 446	16, 100
Market, private, fall			2, 134, 592	233, 932	511, 639	37, 306	475, 398	69, 300
Seed, public, spring					55, 001	2, 750		
Seed, public, fall			125, 003	10, 000	110, 002	5, 500		
Scallops, bay					381, 960	25, 664		
Total	104, 200	12, 424	6, 659, 600	448, 531	10, 617, 603	507, 635	102, 531, 552	1, 121, 849

Fisheries of Virginia, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Prince George		Princess Anne		Prince William		Richmond		Spotsylvania	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	21, 500	$430					74, 000	$1, 480		
Bluefish			2, 400	$240						
Butterfish			12, 000	600						
Carp	25, 500	1, 275					4, 250	210		
Catfish and bullheads	16, 500	495			30, 600	$1, 224	18, 200	910	14, 000	$560
Croaker			107, 000	2, 140			19, 000	760		
Eels							1, 500	105		
Flounders			1, 800	90						
Gizzard shad	15, 000	340								
Shad	42, 200	6, 575	110, 000	19, 800	6, 608	1, 042	14, 850	2, 228		
Spot			151, 200	7, 560			1, 500	75		
Squeteagues or "sea trout":										
Gray			17, 000	850						
Spotted			3, 200	384						
Striped bass	8, 350	1. 252			8, 200	1, 640				
White perch	6, 700	335			13, 600	816	13, 950	698		
Yellow perch					5, 460	432			8, 400	588
Crab, hard							3, 500	70	36, 000	720
Oysters:										
Market, public, spring							32, 269	4, 704		
Market, public, fall							96, 808	14, 112		
Market, private, spring			132, 741	29, 025			138, 030	18, 109		
Market, private, fall			265, 139	57, 975			201, 856	26, 608		
Total	135, 750	10, 702	802, 480	118, 664	64, 468	5, 154	619, 713	70, 069	58, 400	1, 868

Species	Stafford		Surry		Warwick		Westmoreland		York	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives			20, 500	$410	74, 000	$1, 110	291, 307	$5, 200	41, 500	$415
Bluefish									17, 600	1, 728
Butterfish					500	25			19, 800	1, 740
Carp			40, 600	1, 530			10, 400	832		
Catfish and bullheads	11, 600	$580	43, 600	1, 308			27, 600	1, 380		
Croaker			6, 200	186	53, 000	1, 060	21, 800	436	1, 658, 700	39, 974
Drum:										
Black									1, 000	20
Red or redfish									25, 200	996
Eels									200	20
Flounders					10, 000	500			226, 700	10, 113
Gizzard shad	2, 000	60	25, 600	768	400	16	400	8		
Pigfish									64, 000	3, 200
Pompano									2, 000	400
Scup or porgy									170, 000	8, 000
Sea bass									130, 000	9, 200
Shad	2, 205	378	78, 200	11, 730	81, 000	13, 230	38, 382	6, 660	112, 000	18, 300
Spanish mackerel									29, 300	4, 395
Spot									368, 500	19, 400
Squeteagues or "sea trout":										
Gray					20, 800	1, 248	28, 050	709	258, 600	14, 526
Spotted									150, 000	18, 000
Striped bass	2, 700	405	14, 700	2, 205	16, 240	2, 436	35, 260	5, 440	43, 400	6, 510
Sturgeon									2, 500	750
White perch	6, 000	348	12, 300	615	6, 300	504	19, 000	950	500	50
Yellow perch	1, 800	144					3, 400	272		
Crabs, hard	9, 000	135			62, 400	1, 248	960, 000	14, 400	7, 600, 000	152. 100
Clams, hard, public									583, 600	146, 420
Oysters:										
Market, public, spring					64, 724	5, 661	30, 774	4, 486	255, 535	22, 350
Market, public, fall					194, 172	16, 983	296, 791	43, 264	766, 605	73, 050
Market, private, spring									30, 527	2, 670
Market, private, fall									71, 275	6, 234
Seed, public, spring					911, 519	45, 575			579, 177	28, 958
Seed, public, fall					1, 823, 537	91, 175			1, 158, 356	57, 917
Total	35, 305	2, 050	241, 700	18, 752	3, 318, 592	180, 771	1, 763, 164	84, 037	14, 366, 575	647. 436

Industries related to the fisheries of Virginia, 1930

TRANSPORTING

Item	Accomac County	Elizabeth City County	Gloucester County	Isle of Wight County	King and Queen County	Lancaster County	Mathews County	Middlesex County
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Persons engaged on vessels	95	18	23	8	11	83	57	40
Vessels:								
Motor—								
5 to 10 tons	36	3	6	2	3	21	18	9
11 to 20 tons	10	5	6	2	1	14	11	6
21 to 30 tons	4	--------	--------	--------	--------	3	--------	2
31 to 40 tons	2	--------	--------	--------	1	--------	--------	1
71 to 80 tons	--------	--------	--------	--------	--------	2	--------	--------
Total	52	8	12	4	5	40	29	18
Net tonnage	577	95	123	42	72	585	287	244
Sail—								
21 to 30 tons	--------	--------	--------	--------	--------	--------	1	--------
Net tonnage	--------	--------	--------	--------	--------	--------	30	--------
Total vessels	52	8	12	4	5	40	30	18
Total net tonnage	577	95	123	42	72	585	317	244

Item	Nansemond County	Norfolk County	Northampton County	Northumberland County	Richmond County	Westmoreland County	York County	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Persons engaged on vessels	26	5	14	74	15	2	30	501
Vessels:								
Motor—								
5 to 10 tons	8	2	8	25	5	--------	9	155
11 to 20 tons	5	--------	--------	9	1	1	6	77
21 to 30 tons	--------	--------	--------	3	--------	--------	--------	12
31 to 40 tons	--------	--------	--------	--------	1	--------	--------	5
71 to 80 tons	--------	--------	--------	--------	--------	--------	--------	2
81 to 90 tons	--------	--------	--------	1	--------	--------	--------	1
101 to 110 tons	--------	--------	--------	1	--------	--------	--------	1
Total	13	2	8	39	7	1	15	253
Net tonnage	121	19	59	561	85	19	157	3, 046
Sail—								
21 to 30 tons	--------	--------	--------	--------	--------	--------	--------	1
Net tonnage	--------	--------	--------	--------	--------	--------	--------	30
Total vessels	13	2	8	39	7	1	15	254
Total net tonnage	121	19	59	561	85	19	157	3, 076

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Accomac County	Arlington and Westmoreland Counties	Elizabeth City County	Essex and Richmond Counties	Gloucester, King William, and Mathews Counties	Isle of Wight County	Lancaster County
Establishments	77	4	20	5	4	3	30
Persons engaged:							
Proprietors	96	4	29	9	5	6	41
Salaried employees	7	1	16	--------	2	1	3
Wage earners—							
Average for season	600	16	495	94	105	63	823
Average for year	297	7	241	29	52	22	262
Paid to salaried employees	$6, 110	$1, 020	$30, 916	--------	$1, 190	$1, 040	$11, 000
Paid to wage earners	190, 847	4, 735	151, 515	$13, 040	28, 060	11, 680	130, 599
Total salaries and wages	196, 957	5, 755	182, 431	13, 040	29, 250	12, 720	141, 599

Industries related to the fisheries of Virginia, 1930—Continued

WHOLESALE AND MANUFACTURING—Continued

OPERATING UNITS, SALARIES, AND WAGES—Continued

Item	Middlesex County	Norfolk County	Northampton County	Northumberland County	Warwick and York Counties	Total
Establishments	7	15	18	29	8	220
Persons engaged:						
Proprietors	8	24	28	43	10	303
Salaried employees	1	37	4	5	1	78
Wage earners—						
Average for season	127	883	409	791	42	4, 448
Average for year	41	441	153	245	27	1, 817
Paid to salaried employees	$150	$63, 209	$4, 620	$20, 400	$1, 200	$140, 855
Paid to wage earners	22, 348	303, 012	60, 278	138, 335	24, 818	1, 079, 267
Total salaries and wages	22, 498	366, 221	64, 898	158, 735	26, 018	1, 220, 122

PRODUCTS MANUFACTURED

Item	Quantity	Value
Alewives:		
Salted......pounds	6, 207, 590	$197, 178
Canned......standard cases	38, 239	114, 540
Roe, canned......do	36, 677	185, 133
Scrap, dry......tons	860	41, 004
Oil......gallons	31, 389	6, 673
Butterfish, pandressed......pounds	63, 986	7, 610
Croaker:		
Pandressed......do	858, 705	83, 926
Fresh fillets......do	23, 000	2, 825
Flounders, pandressed......do	85, 565	10, 032
Haddock, fresh fillets......do	249, 581	43, 050
Menhaden:		
Dry scrap and meal......tons	14, 325	698, 439
Oil......gallons	1, 682, 733	338, 377
Spot, pandressed......pounds	34, 445	4, 451
Squeteague:		
Pandressed......do	802, 309	85, 014
Fresh fillets......do	213, 435	35, 285
Whiting, pandressed......do	88, 445	6, 023
Crab meat, packaged (fresh-cooked)......do	1, 364, 334	510, 562
Oysters:		
Fresh-shucked......gallons	1, 384, 836	2, 340, 024
Shell products—		
Poultry feed......tons	18, 519	166, 444
Lime......do	10, 798	62, 186
Lime, "burned"......do	9, 847	89, 290
Scallops, bay, fresh-shucked......gallons	64, 526	84, 967
Unclassified products:		
Packaged [1]	([2])	73, 478
Oil [3]......gallons	8, 435	1, 847
By-products [4]......tons	1, 542	39, 742
Total		5, 228, 100

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 479]

Scallops, bay, fresh-shucked......gallons	136, 000	$100, 000

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[1] Includes fresh cod and shad fillets, pandressed bluefish and haddock, shucked hard clams, and canned crab meat.

[2] Data not available.

[3] From mixed species.

[4] Includes crab scrap and miscellaneous fish scrap and meal.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country: therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 479 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

SHAD AND ALEWIFE FISHERIES OF THE POTOMAC RIVER

The catch of shad in the Potomac River in 1931 amounted to 294,425 roes, and 331,074 bucks, having a combined weight of 2,061,036 pounds, and a total value to the fishermen of $193,505. The catch of alewives for the same season amounted to 18,380,850 in number with a total weight of 7,352,340 pounds, and a value to the fishermen of $55,460. These figures indicate an increase of 243 per cent in the weight and 97 per cent in the value of shad as compared with 1930 and 136 per cent in the weight and 12 per cent in the value of the alewives. About 70 per cent of the shad were taken in pound nets, nearly 30 per cent in gill nets, and the remainder incidentally with haul seines. More than 99 per cent of the alewives were taken in pound nets. The remainder were taken in gill nets and haul seines.

Shad and alewife fisheries of the Potomac River, 1931

Item	Maryland			Virginia			Total		
	Number	Pounds	Value	Number	Pounds	Value	Number	Pounds	Value
Fishermen on boats and shore—									
Regular	51			324			375		
Casual	131			175			306		
Total	182			499			681		
Boats:									
Motor	53			165			218		
Other	55			130			185		
Apparatus:									
Pound nets	64			341			405		
Gill nets	700			764			1,464		
Square yards	266,955			215,190			482,145		
Haul seines				2			2		
Length, yards				2,100			2,100		
Shad caught:									
With pound nets	10,037	33,308	$3,786	428,528	1,398,837	$143,527	438,565	1,432,145	$147,313
With gill nets	90,380	304,210	20,645	95,354	320,631	25,220	185,734	624,841	45,865
With haul seines				1,200	4,050	327	1,200	4,050	327
Total	100,417	337,518	24,431	525,082	1,723,518	169,074	625,499	2,061,036	193,505
Alewives caught:									
With pound nets	977,750	391,100	3,851	17,343,100	6,937,240	51,204	18,320,850	7,328,340	55,055
With gill nets				55,000	22,000	385	55,000	22,000	385
With haul seines				5,000	2,000	20	5,000	2,000	20
Total	977,750	391,100	3,851	17,403,100	6,961,240	51,609	18,380,850	7,352,340	55,460

TRADE IN FRESH, FROZEN, SMOKED, AND PACKAGED FISHERY PRODUCTS IN WASHINGTON, D. C.

The municipal fish wharf and market in Washington, D. C., is located in the southwestern part of the city on an arm of the Potomac River. At the present time 16 fishery firms have stalls in the market, 3 firms are in private buildings across the street, and 4 firms have stalls in the new Center Market. Altogether the 23 above firms employed 120 persons who received $89,542 in salaries and wages during 1931. Of the total employees, 103 were regularly employed. These firms conduct a wholesale and retail business, chiefly wholesale however.

During the year 1931 the receipts of fresh and frozen fishery products as received at the municipal wharf amounted to 9,305,465 pounds. This is an increase of 4 per cent as compared with the year 1930, and an increase of 11 per cent as compared with the 5-year average.

During the year 1931 four firms in Washington, D. C., smoked fishery products which amounted to 268,000 pounds, valued at $27,885. Of this amount, 240,000 pounds valued at $20,950 consisted of herring; 25,050 pounds valued at $6,815 were whitefish while the remainder, 3,000 pounds, valued $120, were alewives or “river herring.” There were two firms which shucked oysters mostly for select retail trade. Their production amounted to 7,600 gallons, valued at $16,720. Most of the smoked fish and shucked oysters were marketed in the city.

Fishery products received at municipal fish wharf and market, Washington, D. C., 1931

Species	January	February	March	April	May	June	July
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Alewives (river herring)	14, 500	47, 400	156, 900	302, 700	154, 800	8, 200	----------
Black bass	7, 600	14, 700	29, 500	26, 400	2, 400	6, 800	8, 200
Bluefish	200	1, 400	1, 100	400	13, 700	9, 900	15, 700
Butterfish	100	800	1, 800	3, 800	45, 100	60, 124	65, 700
Carp	16, 050	5, 200	15, 000	5, 700	12, 700	5, 900	2, 840
Catfish	5, 500	7, 500	17, 800	18, 900	10, 100	7, 900	700
Cod	1, 600	3, 200	4, 000	2, 000	1, 000	300	400
Croaker	45, 800	41, 000	40, 500	276, 600	193, 400	199, 900	332, 000
Drum, red or redfish	3, 500	1, 000	----------	----------	100	440	150
Eels	200	200	200	1, 300	1, 400	200	----------
Flounders	35, 800	49, 700	53, 700	26, 600	19, 900	10, 000	14, 800
Gizzard shad	10, 900	9, 800	2, 200	1, 400	----------	----------	----------
Haddock	44, 160	54, 730	75, 070	60, 660	36, 610	29, 470	29, 730
Hake	200	----------	200	1, 900	3, 500	----------	----------
Halibut	5, 300	4, 400	9, 300	8, 800	5, 700	7, 300	5, 800
Hickory shad or “jacks”	700	6, 300	4, 900	2, 400	100	----------	----------
Hogfish	----------	----------	----------	500	400	----------	----------
Kingfish or “king mackerel”	----------	----------	----------	1, 600	500	----------	----------
King whiting or “kingfish”	----------	500	600	----------	----------	----------	----------
Mackerel	35, 400	42, 600	32, 800	14, 100	18, 300	25, 510	25, 900
Mullet	6, 600	10, 100	1, 400	400	----------	200	600
Perch	11, 150	8, 000	25, 900	33, 000	6, 300	2, 600	1, 200
Pike or pickerel	900	1, 100	1, 500	1, 000	600	800	500
Pollock	1, 300	1, 300	800	1, 000	2, 000	2, 500	1, 200
Pompano	----------	600	----------	200	----------	----------	----------
Salmon	1, 000	3, 500	1, 800	1, 500	3, 700	4, 700	4, 700
Scup or porgy	7, 800	26, 000	27, 700	8, 300	3, 600	4, 200	1, 700
Sea bass	----------	----------	----------	----------	100	----------	----------
Shad	34, 900	13, 800	55, 800	234, 140	377, 600	7, 000	----------
Sheepshead	----------	----------	200	----------	----------	----------	----------
Skates	----------	----------	100	----------	----------	----------	----------
Smelt	1, 200	2, 825	4, 530	1, 200	----------	----------	----------
Snapper, red	200	800	200	200	200	300	100
Spot	1, 000	----------	----------	----------	400	10, 800	31, 400
Squeteagues or “sea trout”	106, 400	54, 100	37, 500	32, 900	280, 400	235, 500	187, 000
Striped bass	3, 700	4, 300	12, 800	38, 000	8, 100	2, 500	3, 900
Sturgeon	----------	----------	----------	100	150	----------	----------
Swordfish	----------	----------	400	----------	----------	100	500
Tilefish	600	800	500	400	200	----------	100
Whitefish	----------	100	100	100	----------	800	900
Whiting	----------	2, 800	----------	----------	----------	----------	----------
Crabs:							
Hard	----------	----------	----------	525	16, 425	76, 275	103, 950
Soft	----------	----------	----------	2, 205	12, 420	11, 745	11, 115
Oyster	----------	5	----------	----------	----------	----------	----------
Crab meat	2, 000	1, 795	2, 990	5, 925	15, 505	25, 905	26, 730
Lobsters (alive)	150	400	850	4, 350	4, 050	3, 750	1, 800
Lobsters (cooked)	----------	----------	750	----------	----------	----------	----------
Lobster meat	----------	125	100	190	125	20	325
Shrimp	5, 100	6, 300	8, 600	4, 800	8, 400	8, 300	4, 300
Squid	2, 900	----------	----------	----------	300	100	----------
Clams, hard	5, 152	3, 968	5, 024	6, 400	6, 944	6, 656	7, 072
Oysters:							
In the shell (meat)	32, 333	17, 115	15, 393	3, 549	21	----------	----------
Opened (meat)	78, 522	64, 838	60, 401	16, 345	----------	----------	----------
Scallops	960	80	560	640	640	280	----------
Frogs	----------	13	----------	84	134	95	15
Terrapin	1, 024	144	----------	80	----------	----------	----------
Turtles	872	----------	144	416	968	620	96
Total	533, 273	515, 338	711, 612	1, 153, 709	1, 268, 992	777, 690	891, 123

Fishery products received at municipal fish wharf and market, Washington, D. C., 1931—Continued

Species	August	September	October	November	December	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Alewives (river herring)						684, 500
Black bass	3, 900	4, 200	4, 300	2, 200	3, 800	114, 000
Bluefish	13, 400	18, 700	34, 300	11, 500	5, 600	125, 900
Butterfish	48, 500	40, 300	41, 100	78, 500	25, 718	411, 542
Carp	1, 500	11, 500	7, 500	8, 000	9, 600	101, 490
Catfish	700	7, 900	15, 300	22, 000	16, 400	130, 700
Cod	500	500	800	1, 000	2, 800	18, 100
Croaker	180, 600	148, 400	76, 300	59, 600	89, 500	1, 683, 600
Drum, red or redfish			30	200		5, 420
Eels		200	1, 500	2, 000	3, 400	10, 600
Flounders	9, 700	17, 100	21, 500	33, 000	29, 900	321, 700
Gizzard shad			400	240	8, 800	33, 740
Haddock	14, 180	16, 270	24, 895	24, 030	32, 300	442, 105
Hake				800	5, 800	12, 400
Halibut	4, 700	5, 900	6, 600	5, 000	3, 600	72, 400
Hickory shad or "jacks"						14, 400
Hogfish	200	200				1, 300
Kingfish or "king mackerel"	600	200		200	4, 400	7, 500
King whiting or "kingfish"			1, 500	2, 600		5, 200
Mackerel	15, 600	19, 400	11, 800	10, 400	14, 200	266, 010
Mullet	400	4, 400	8, 600	11, 900	4, 400	49, 000
Perch	2, 500	5, 400	8, 100	6, 700	10, 800	121, 650
Pike or pickerel	600	2, 000	1, 700	1, 100	500	12, 300
Pollock	2, 400	400	2, 100	1, 200	400	16, 600
Pompano						800
Salmon	2, 400	3, 600	3, 100	3, 100	1, 600	34, 700
Scup or porgy	500	400			1, 200	81, 400
Sea bass						100
Shad						723, 240
Sheepshead				200		400
Skates						100
Smelt				60	705	10, 520
Snapper, red	500	1, 100	400	600	300	4, 900
Spot	51, 200	115, 400	125, 400	15, 800	4, 200	355, 600
Squeteagues or "sea trout"	133, 300	208. 600	278, 600	223, 500	108, 800	1, 886, 600
Striped bass	2, 600	6, 600	22, 900	17, 700	12, 600	135, 700
Sturgeon			80	200		530
Swordfish	600	800	500			2, 900
Tilefish	400			300	200	3, 500
Whitefish	900	1, 900	900	800	600	7, 100
Whiting						2, 800
Crabs:						
Hard	60, 750	51, 450	10, 050	75		319, 500
Soft	12, 195	15, 795	9, 270	135		74, 880
Oyster						5
Crab meat	14, 285	12, 645	11, 450	5, 835	4, 875	129, 940
Sea crawfish or "spiny lobster"				150	50	200
Lobsters (alive)	650	750	2, 850	1, 350	650	21, 600
Lobsters (cooked)						750
Lobster meat	100	30	135	50		1, 200
Shrimp	5, 200	3, 900	7, 900	5, 800	3, 400	72, 000
Squid			100	400	2, 400	6, 200
Clams, hard	6, 720	6, 880	5, 920	3. 552	4, 096	[1] 68, 384
Oysters:						
In the shell (meat)		2, 044	26, 355	50, 442	105, 413	[2] 252, 665
Opened (meat)		2, 686	48, 781	63, 149	98, 411	[3] 433, 133
Scallops	160	240	720	1, 280	1, 080	6, 640
Frogs			12			353
Terrapin			600			1, 848
Turtles	4					3, 120
Total	592, 444	737, 790	824, 348	676, 648	622, 498	9, 305, 465

[1] 8,548 bushels. [2] 36,095 bushels. [3] 49,501 gallons.

NOTE.—The clams have been reduced to pounds on the basis of 8 pounds of meat to a bushel, the oysters on the basis of 7 pounds of meat to a bushel, and 8¾ pounds to a gallon.

FISHERIES OF THE SOUTH ATLANTIC AND GULF STATES[9]

The yield of fishery products in the South Atlantic and Gulf States (North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Texas) during 1930 amounted to 417,759,466 pounds, valued at $11,064,819. This is a decrease of 22 per cent in the volume of the catch and 26 per cent in its value as compared with the previous year. Of the total catch in 1930, 301,218,657 pounds, valued at $5,277,727, were fish, and 116,540,809 pounds, valued at $5,787,092, were shellfish and miscellaneous products. These fisheries gave employment to 23,590 fishermen or a decrease of 11 per cent as compared with the previous year. Of the total number of fishermen employed during 1930, 3,454 regular fishermen were engaged on vessels and 15,965 regular and 4,171 casual fishermen were employed in the boat and shore fisheries.

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[9] With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

Fisheries of the South Atlantic and Gulf States, 1930

SUMMARY OF CATCH

Product	North Carolina		South Carolina		Georgia	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	163, 145, 785	$1, 469, 682	1, 017, 836	$83, 337	25, 610, 484	$181, 160
Shellfish, etc	5, 792, 920	366, 799	4, 087, 761	169, 522	9, 262, 037	355, 134
Total	168, 938, 705	1, 836, 481	5, 105, 597	252, 859	34, 872, 521	536, 294

Product	Florida		Alabama		Mississippi	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	99, 740, 175	$2, 829, 759	3, 761, 479	$192, 423	1, 671, 153	$87, 787
Shellfish, etc	20, 674, 961	1, 815, 993	3, 351, 760	123, 045	14, 064, 377	652, 347
Total	120, 415, 136	4, 645, 752	7, 113, 239	315, 468	15, 735, 530	740, 134

Product	Louisiana		Texas		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Fish	1, 954, 586	$114, 678	4, 317, 159	$318, 901	301, 218, 657	$5, 277, 727
Shellfish, etc	47, 931, 314	1, 845, 679	11, 375, 679	458, 573	116, 540, 809	5, 787, 092
Total	49, 885, 900	1, 960, 357	15, 692, 838	777, 474	417, 759, 466	11, 064, 819

OPERATING UNITS: BY STATES

Item	North Carolina	South Carolina	Georgia	Florida	Alabama	Mississippi	Louisiana	Texas	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:									
On vessels	1, 159	39	144	867	142	555	370	178	3, 454
On boats and shore—									
Regular	2, 693	705	371	6, 176	469	1, 355	2, 775	1, 421	15, 965
Casual	1, 353	756	472	737	55	193	238	367	4, 171
Total	5, 205	1, 500	987	7, 780	666	2, 103	3, 383	1, 966	23, 590
Vessels:									
Steam			3						3
Net tonnage			166						166
Motor	110	10	24	98	30	125	148	44	589
Net tonnage	2, 140	124	195	3, 174	335	1, 678	1, 074	535	9, 255
Sail	67			6		5			78
Net tonnage	631			527		66			1, 224
Total vessels	177	10	27	104	30	130	148	44	670
Total net tonnage	2, 771	124	361	3, 701	335	1, 744	1, 074	535	10, 645

Fisheries of the South Atlantic and Gulf States, 1930—Continued

OPERATING UNITS: BY STATES—Continued

Item	North Carolina	South Carolina	Georgia	Florida	Alabama	Mississippi	Louisiana	Texas	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Boats:									
Motor	1,375	51	178	2,332	185	401	997	431	5,950
Other	1,586	969	421	3,220	183	615	1,073	498	8,565
Accessory boats	123	-----	12	21	13	-----	-----	-----	169
Apparatus:									
Purse seines—									
Menhaden	52	-----	3	17	-----	-----	-----	-----	72
Length, yards	13,335	-----	900	4,960	-----	-----	-----	-----	19,195
Other	4	-----	-----	2	-----	-----	-----	-----	6
Length, yards	700	-----	-----	600	-----	-----	-----	-----	1,300
Haul seines—									
Common	580	21	16	173	8	45	138	63	1,044
Length, yards	80,708	3,535	1,850	64,220	5,900	9,220	27,875	11,250	204,558
Long	87	-----	-----	80	-----	-----	-----	-----	167
Length, yards	84,650	-----	-----	64,200	-----	-----	-----	-----	148,850
Gill nets—									
Anchor	2,529	282	27	42	-----	-----	-----	2	2,882
Square yards	1,287,852	82,000	6,090	25,200	-----	-----	-----	2,000	1,40 , 142
Drift	170	157	146	212	-----	-----	-----	-----	685
Square yards	172,203	160,790	275,045	330,450	-----	-----	-----	-----	938,488
Runaround	426	27	45	2,213	-----	-----	1	102	2,814
Square yards	198,979	13,000	14,310	2,812,854	-----	-----	30	23,854	3,063,027
Stake	11,229	-----	105	2	-----	-----	-----	383	11,719
Square yards	741,300	-----	54,540	1,080	-----	-----	-----	95,294	892,214
Trammel nets	-----	-----	-----	180	84	55	50	80	449
Square yards	-----	-----	-----	129,568	28,692	17,785	13,712	26,651	216,408
Lines—									
Hand	98	127	8	1,579	149	167	147	459	2,734
Hooks	396	460	16	2,809	271	201	152	678	4,983
Troll	15	-----	-----	1,309	2	-----	-----	8	1,334
Hooks	15	-----	-----	1,814	2	-----	-----	8	1,839
Trot, with baits or snoods	177	6	6	8	14	66	288	33	598
Baits or snoods	122,800	4,800	1,950	1,700	2,475	20,795	58,370	4,300	217,190
Trot, with hooks	14	-----	68	241	177	-----	3	36	539
Hooks	840	-----	3,400	106,740	17,900	-----	300	5,500	134,680
Pound nets	2,343	-----	-----	52	-----	-----	-----	-----	2,395
Weirs	4	-----	-----	-----	-----	-----	-----	-----	4
Wheels	50	-----	-----	-----	-----	-----	-----	-----	50
Fyke nets	847	-----	60	2,950	119	-----	-----	-----	3,976
Dip nets—									
Common	244	10	-----	62	-----	-----	-----	-----	316
Drop	-----	-----	-----	31	-----	232	1,700	-----	1,963
Cast nets	-----	-----	40	44	-----	54	3	-----	141
Otter trawls—									
Fish	4	-----	-----	-----	-----	-----	-----	-----	4
Yards at mouth	74	-----	-----	-----	-----	-----	-----	-----	74
Shrimp	52	36	182	327	138	363	940	264	2,302
Yards at mouth	908	675	3,774	5,689	1,800	4,607	12,213	3,855	33,521
Box traps	10	-----	-----	-----	-----	-----	-----	-----	10
Wire baskets	-----	-----	-----	520	-----	-----	-----	-----	520
Turtle traps	30	-----	-----	-----	-----	-----	-----	-----	30
Pots—									
Crab	-----	-----	30	1,383	-----	-----	-----	-----	1,413
Eel	1,502	-----	-----	90	-----	-----	-----	-----	1,592
Sea crawfish	-----	-----	-----	2,533	-----	-----	-----	-----	2,533
Spears	54	30	-----	26	21	76	-----	175	382
Dredges—									
Clam	-----	-----	-----	1	-----	-----	72	-----	73
Yards at mouth	-----	-----	-----	-----	-----	-----	72	-----	72
Crab	80	-----	-----	-----	-----	-----	-----	-----	80
Yards at mouth	107	-----	-----	-----	-----	-----	-----	-----	107
Oyster	243	2	-----	-----	-----	437	-----	38	720
Yards at mouth	241	3	-----	-----	-----	443	-----	37	724
Scallop	328	-----	-----	2	-----	-----	-----	-----	330
Yards at mouth	318	-----	-----	2	-----	-----	-----	-----	320
Tongs	480	77	108	420	116	440	526	330	2,497
Rakes	643	47	6	-----	-----	-----	-----	-----	696
Forks	-----	-----	-----	58	-----	-----	-----	-----	58
Grabs	-----	501	84	-----	-----	-----	-----	-----	585
Hooks—									
Sea crawfish and stone crab	-----	-----	-----	2,000	-----	-----	-----	-----	2,000
Sponge	-----	-----	-----	283	-----	-----	-----	-----	283
Diving apparatus	-----	-----	-----	55	-----	-----	-----	-----	55

Fisheries of the South Atlantic and Gulf States, 1930—Continued

CATCH: BY STATES

Species	North Carolina		South Carolina		Georgia	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Alewives	9, 838, 727	$68, 308	2, 000	$10		
Black bass	106, 413	15, 545				
Bluefish	842, 935	41, 781	100	10	1, 012	$227
Bonito	18, 850	470				
Bowfin	19, 230	568				
Butterfish	182, 560	4, 301				
Carp	470, 189	32, 409				
Catfish and bullheads	460, 072	20, 307	2, 000	40	228, 000	7, 100
Cero	9, 000	680				
Cod	1, 200	45				
Crappie	650	110				
Croaker	5, 108, 310	75, 419	2, 000	60	15, 500	310
Drum:						
Black			500	25	1, 000	30
Red or redfish	145, 050	2, 474	8, 350	466	5, 250	210
Eels	142, 260	10, 787				
Flounders	349, 800	17, 458	30, 025	2, 266	8, 800	613
Garfish	100	6				
Gizzard shad	38, 991	614				
Groupers					7, 354	441
Grunts	18, 000	360	8, 000	640	390	32
Harvestfish or "starfish"	343, 300	10, 111				
Hickory shad	323, 960	13, 857	7, 500	330	25, 500	2, 010
Jewfish					4, 629	232
King whiting or "kingfish"	272, 350	11, 165	38, 080	3, 451	38, 250	1, 463
Menhaden	134, 051, 240	535, 631			24, 701, 250	94, 100
Mullet	2, 386, 350	91, 434	412, 000	20, 972	176, 800	9, 795
Pigfish	94, 200	1, 596	725	22		
Pike or pickerel	9, 970	1, 137				
Pinfish or sailors choice	31, 900	480	2, 000	80		
Pompano	8, 600	907	100	15		
Porgies	1, 000	30	100	8		
Sea bass	173, 250	7, 975	197, 250	15, 587	22, 840	2, 085
Shad	1, 172, 161	209, 989	214, 492	32, 365	274, 755	54, 751
Sharks			10, 000	200		
Sheepshead	11, 615	585	100	10	700	42
Skates			1, 000	50		
Snappers:						
Mangrove			3, 000	240	200	16
Red	4, 750	195			29, 854	2, 462
Spadefish	430	17				
Spanish mackerel	131, 165	11, 776				
Spot	2, 326, 790	38, 334	28, 300	669	11, 950	219
Squeteagues or "sea trout":						
Gray	2, 333, 127	82, 613	24, 000	1, 720	3, 000	130
Spotted	694, 309	58, 271	10, 900	1, 090	48, 450	3, 892
Squirrelfish	150	6	350	18		
Striped bass	456, 876	60, 550			500	100
Sturgeon	2, 600	840	14, 964	2, 993	4, 500	900
Suckers	15, 650	724				
Sunfish	8, 797	185				
Tripletail	500	19				
White perch	442, 208	32, 992				
Yellow perch	96, 200	6, 621				
Total	163, 145, 785	1, 469, 682	1, 017, 836	83, 337	25, 610, 484	181, 160
SHELLFISH, ETC.						
Crabs: [1]						
Hard	1, 159, 500	18, 995	26, 000	780	228, 000	4, 560
Soft	378, 580	57, 068				
Stone	350	11				
Shrimp	1, 298, 610	40, 752	792, 733	31, 814	8, 852, 712	334, 576
Clams, hard, public [2]	316, 720	40, 680	11, 200	1, 400	2, 240	350
Oysters: [3]						
Market, public, spring	1, 166, 258	72, 725	1, 742, 057	58, 887	29, 978	2, 740
Market, public, fall	1, 039, 416	82, 423	683, 960	25, 914	21, 161	1, 440
Market, private, spring			546, 078	33, 363	50, 709	3, 423
Market, private, fall			276, 414	14, 988	57, 537	3, 005
Scallops, bay	431, 826	53, 923				
Octopus	1, 000	150	3, 500	290		
Terrapin, diamond-back	90	45	5, 819	2, 086	19, 700	5, 040

See footnotes at end of table.

Fisheries of the South Atlantic and Gulf States, 1930—Continued

CATCH: BY STATES—Continued

Species	North Carolina		South Carolina		Georgia	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC.—continued						
Turtles:						
Loggerhead	70	$2				
Snappers	500	25				
Total	5, 792, 920	366, 799	4, 087, 761	$169, 522	9, 262, 037	$355, 134
Grand total	168, 938, 705	1, 836, 481	5, 105, 597	252, 859	34, 872, 521	536, 294

Species	Florida		Alabama		Mississippi	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Alewives	365, 732	$5, 486				
Amberjack	21, 220	667				
Black bass	333, 086	31, 615				
Bluefish	1, 153, 547	65, 954	20, 654	$926	19, 191	$1, 047
Blue runner or hardtail	754, 245	14, 000	2, 205	63		
Bonito	1, 190	24				
Buffalofish			100, 855	5, 503	14, 969	680
Cabio or crab eater	10, 307	437	2, 200	100	1, 837	98
Catfish and bullheads	4, 346, 231	192, 912	90, 904	6, 001	61, 422	2, 792
Cero	9, 950	480				
Cigarfish	58, 412	1, 752				
Crappie	898, 976	34, 389				
Crevalle	90, 356	2, 459	2, 558	70	9, 957	272
Croaker	33, 020	735	7, 447	247	11, 275	397
Dolphin	5, 000	500				
Drum:						
Black	34, 624	893	11, 693	569	20, 755	972
Red or redfish	1, 023, 884	34, 033	104, 334	6, 107	122, 030	6, 721
Eels	17, 143	856				
Flounders	119, 611	6, 252	24, 180	1, 960	68, 989	6, 001
Groupers	3, 064, 802	92, 194	177, 945	5, 338	71, 093	2, 133
Grunts	21, 883	657				
Hickory shad	29, 616	888				
Hogfish	2, 000	100				
Jewfish	26, 050	782	5, 021	151	1, 274	38
Kingfish or "king mackerel"	3, 685, 865	175, 006				
King whiting or "kingfish"	153, 133	5, 165	5, 798	199	5, 604	183
Menhaden	40, 414, 170	176, 446				
Mojarro	81, 275	2, 508				
Mullet	22, 021, 806	669, 468	2, 205, 378	86, 007	801, 755	32, 120
Muttonfish	225, 039	15, 446				
Paddlefish or spoonbill cat			2, 251	125		
Permit	14, 882	449				
Pigfish	62, 155	1, 601				
Pinfish or sailors choice	78, 050	1, 524				
Pompano	573, 353	111, 716	5, 062	790	791	228
Porgies	55, 033	1, 643				
Porkfish	600	36				
Sea bass	48, 640	3, 206				
Shad	879, 732	129, 014				
Sharks	2, 187, 500	3, 500				
Sheepshead	872, 133	29, 768	17, 569	988	30, 517	1, 735
Snappers:						
Mangrove	121, 820	4, 847				
Red	5, 035, 702	427, 140	847, 918	67, 833	188, 725	15, 875
Snook or sergeantfish	368, 109	11, 275				
Spadefish	48, 561	1, 445	110	3		
Spanish mackerel	6, 140, 217	294, 175	5, 808	338	1, 355	88
Spot	142, 556	4. 012	1, 561	66		
Squeteagues or "sea trout":						
Gray	599, 200	43, 355	6, 587	246	107, 167	3, 720
Spotted	2, 790, 566	202, 541	105, 981	8, 268	125, 112	12, 344
Sturgeon	8, 410	1, 259	1, 816	297	73	22
Sunfish	434, 183	13, 043				
Tenpounder	181, 361	5, 213	5, 369	215	4, 725	142
Tripletail	4, 869	168	275	13	2, 537	179
Turbot	900	54				
Yellowtail	89, 470	6, 671				
Total	99, 740, 175	2, 829, 759	3, 761, 479	192, 423	1, 671, 153	87, 787

Fisheries of the South Atlantic and Gulf States, 1930—Continued

CATCH: BY STATES—Continued

Species	Florida		Alabama		Mississippi	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC.						
Crabs: [1]						
Hard	111, 295	$4, 103	79, 968	$1, 142	$673, 281	$11, 129
Soft	----------	----------	780	195	5, 800	1, 740
Stone	307, 550	26, 630	----------	----------	----------	----------
Sea crawfish or spiny lobster	288, 309	26, 731	----------	----------	----------	----------
Shrimp	16, 848, 576	635, 506	2, 982, 200	97, 219	8, 489, 050	318, 871
Clams: [2]						
Hard, public	687, 888	44, 540	----------	----------	----------	----------
Hard, private	23, 688	1, 890	----------	----------	----------	----------
Conchs	20, 000	200	----------	----------	----------	----------
Oysters: [3]						
Market, public, spring	790, 168	51, 468	40, 144	3, 755	3, 959, 190	260, 061
Market, public, fall	878, 242	81, 104	225, 506	17, 723	937, 056	60, 546
Market, private, spring	35, 545	3, 063	4, 080	480	----------	----------
Market, private, fall	79, 298	6, 563	17, 064	1, 896	----------	----------
Scallops, bay	21, 867	2, 139	----------	----------	----------	----------
Terrapin, diamond-back	406	83	2, 018	635	----------	----------
Turtles:						
Green	21, 550	1, 078	----------	----------	----------	----------
Soft-shell	11, 578	235	----------	----------	----------	----------
Sponges:						
Grass	82, 918	26, 556	----------	----------	----------	----------
Sheepswool	370, 465	858, 699	----------	----------	----------	----------
Velvet	682	409	----------	----------	----------	----------
Wire	3, 781	2, 041	----------	----------	----------	----------
Yellow	91, 155	42, 955	----------	----------	----------	----------
Total	20, 674, 961	1, 815, 993	3, 351, 760	123, 045	14, 064, 377	652, 347
Grand total	120, 415, 136	4, 645, 752	7, 113, 239	315, 468	15, 735, 530	740, 134

Species	Louisiana		Texas		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Alewives	----------	----------	----------	----------	10, 206, 459	$73, 804
Amberjack	----------	----------	----------	----------	21, 220	667
Black bass	----------	----------	----------	----------	439, 499	47, 160
Bluefish	----------	----------	165	$14	2, 037, 604	109, 959
Blue runner or hardtail	----------	----------	----------	----------	756, 450	14, 063
Bonito	----------	----------	----------	----------	20, 040	494
Bowfin	----------	----------	----------	----------	19, 230	568
Buffalofish	----------	----------	----------	----------	115, 824	6, 183
Butterfish	----------	----------	----------	----------	182, 560	4, 301
Cabio or crab eater	----------	----------	----------	----------	14, 344	635
Carp	----------	----------	----------	----------	470, 189	32, 409
Catfish and bullheads	89, 143	$3, 213	97, 572	4, 380	5, 375, 344	236, 745
Cero	----------	----------	----------	----------	18, 950	1, 160
Cigarfish	----------	----------	----------	----------	58, 412	1, 752
Cod	----------	----------	----------	----------	1, 200	45
Crappie	----------	----------	----------	----------	899, 626	34, 499
Crevalle	165	15	154	4	103, 190	2, 820
Croaker	59, 863	4, 205	31, 913	1, 095	5, 269, 328	82, 468
Dolphin	----------	----------	----------	----------	5, 000	500
Drum:						
Black	166, 436	6, 451	1, 051, 968	33, 656	1, 286, 976	42, 596
Red or redfish	334, 882	25, 959	872, 597	72, 446	2, 616, 377	148, 416
Eels	----------	----------	----------	----------	159, 403	11, 643
Flounders	23, 067	2, 083	71, 297	7, 083	695, 769	43, 716
Garfish	1, 320	120	----------	----------	1, 420	126
Gizzard shad	----------	----------	----------	----------	38, 991	614
Groupers	3, 500	105	20, 855	630	3, 345, 549	100, 841
Grunts	----------	----------	----------	----------	48, 273	1, 689
Harvestfish or "starfish"	----------	----------	----------	----------	343, 300	10, 111
Hickory shad	----------	----------	----------	----------	386, 576	17, 085
Hogfish	----------	----------	----------	----------	2, 000	100
Jewfish	6, 000	180	1, 430	56	44, 404	1, 439
Kingfish or "king mackerel"	----------	----------	3, 080	120	3, 688, 945	175, 126
King whiting or "kingfish"	54, 367	1, 704	15, 730	572	583, 312	23, 902
Menhaden	----------	----------	----------	----------	199, 166, 660	806, 177
Mojarro	----------	----------	----------	----------	81, 275	2, 508
Mullet	8, 972	311	7, 921	232	28, 020, 982	910, 339
Muttonfish	----------	----------	----------	----------	225, 039	15, 446
Paddlefish or spoonbill cat	----------	----------	----------	----------	2, 251	125
Permit	----------	----------	----------	----------	14, 882	449
Pigfish	----------	----------	----------	----------	157, 080	3, 219
Pike or pickerel	----------	----------	----------	----------	9, 970	1, 137

See footnotes at end of table.

Fisheries of the South Atlantic and Gulf States, 1930—Continued

CATCH: BY STATES—Continued

Species	Louisiana		Texas		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH—continued						
Pinfish or sailors choice					111, 950	$2, 0
Pompano	1, 112	$301	13, 010	$2, 963	602, 028	116, 92
Porgies					56, 133	1, 68
Porkfish					600	3
Sea bass					441, 980	28, 85
Shad					2, 541, 140	426, 11
Sharks	300, 000	1, 400			2, 497, 500	5, 10
Sheepshead	102, 124	5, 993	42, 251	1, 933	1, 077, 009	41, 05
Skates					1, 000	5
Snappers:						
Mangrove					125, 020	5, 10
Red	76, 400	6, 112	929, 578	75, 385	7, 112, 927	595, 00
Snook or sergeantfish			39, 446	2, 816	407, 555	14, 09
Spadefish			550	20	49, 651	1, 48
Spanish mackerel	1, 800	108	74, 289	4, 176	6, 354, 634	310, 66
Spot	9, 704	290			2, 520, 861	43, 59
Squeteagues or "sea trout".						
Gray	323, 329	9, 809			3, 396, 410	141, 59
Spotted	387, 101	45, 864	1, 043, 353	111, 320	5, 205, 772	443, 59
Squirrelfish					500	2
Striped bass					457, 376	60, 65
Sturgeon					32, 363	6, 31
Suckers					15, 650	72
Sunfish					442, 980	13, 22
Tenpounder					191, 455	5, 57
Tripletail	5, 301	455			13, 482	83
Turbot					900	5
White perch					442, 208	32, 99
Yellow perch					96, 200	6, 62
Yellowtail					89, 470	6, 67
Total	1, 954, 586	114, 678	4, 317, 159	318, 901	301, 218, 657	5, 277, 72
SHELLFISH, ETC.						
Crabs: [1]						
Hard	4, 185, 995	63, 457	29, 046	1, 063	6, 493, 085	105, 22
Soft	145, 732	58, 068			530, 892	117, 07
Stone					307, 900	26, 64
Sea crawfish or spiny lobster					288, 309	26, 73
Shrimp	38, 664, 487	1, 159, 626	10, 189, 318	377, 016	88, 117, 686	2, 995, 38
Clams: [2]						
Hard, public					1, 018, 048	86, 97
Hard, private					23, 688	1, 89
Conchs					20, 000	20
Oysters: [3]						
Market, public, spring	271, 464	11, 751	515, 752	35, 888	8, 515, 011	497, 27
Market, public, fall	406, 668	24, 940	633, 819	43, 396	4, 825, 828	337, 48
Market, private, spring	1, 797, 832	201, 657	3, 040	475	2, 437, 284	242, 46
Market, private, fall	2, 370, 336	311, 698	4, 704	735	2, 805, 353	338, 88
Scallops, bay					453, 693	56, 06
Octopus					4, 500	44
Terrapin, diamond-back	38, 750	12, 980			66, 783	20, 86
Turtles:						
Green					21, 550	1, 07
Loggerhead	50, 050	1, 502			50, 120	1, 50
Snappers					500	2
Soft-shell					11, 578	23
Sponges:						
Grass					82, 918	26, 55
Sheepswool					370, 465	858, 69
Velvet					682	40
Wire					3, 781	2, 04
Yellow					91, 155	42, 95
Total	47, 931, 314	1, 845, 679	11, 375, 679	458, 573	116, 540, 809	5, 787, 09
Grand total	49, 885, 900	1, 960, 357	15, 692, 838	777, 474	417, 759, 466	11, 064, 81

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[1] Statistics on hard crabs used in this table are based on 4 pounds per dozen in North Carolina, South Carolina, and Georgia; 6.45 pounds in Florida; 7 pounds in Alabama, Mississippi, and Texas; and 6.34 pounds in Louisiana. In reports for previous years, hard crabs in these States have been computed at 4 pounds per dozen.

[2] Statistics on hard clams used in this table are based on 8 pounds of meats per bushel in Florida, and 1 pounds in the other States. In reports for previous years, all hard clams in these States have been computed on the basis of a uniform yield of 8 pounds of meats to the bushel.

[3] Statistics on market oysters used in this table are based on yields of 5.36 pounds of meats per bushel i North Carolina, 4.61 pounds in South Carolina, 4.41 pounds in Georgia, 3.34 pounds in Florida, 3.23 pounds in Alabama, 1.91 pounds in Mississippi, 3.99 pounds in Louisiana, and 4.65 pounds in Texas. In reports for previous years, all oysters have been computed on the basis of a uniform yield of 7 pounds of meats t the bushel.

Fisheries of the South Atlantic and Gulf States, 1930—Continued

PRODUCTION OF CERTAIN SHELLFISH IN NUMBERS AND BUSHELS

Product	North Carolina		South Carolina		Georgia	
	Quantity	Value	Quantity	Value	Quantity	Value
Crabs:						
Hard..........number	3, 478, 500	$18, 995	78, 000	$780	684, 000	$4, 560
Soft..........do	1, 135, 740	57, 068	----------	----------	----------	----------
Clams, hard, public..........bushels	31, 672	40, 680	1, 120	1, 400	224	350
Oysters:						
Market, public, spring..........do	217, 505	72. 725	377, 870	58, 887	6, 800	2, 740
Market, public, fall..........do	193, 849	82, 423	148, 358	25, 914	4, 800	1, 440
Market, private, spring..........do	----------	----------	118, 450	33, 363	11, 502	3, 423
Market, private, fall..........do	----------	----------	59, 957	14, 988	13, 051	3, 005
Scallops, bay..........do	71, 971	53, 923	----------	----------	----------	----------

Product	Florida		Alabama		Mississippi	
	Quantity	Value	Quantity	Value	Quantity	Value
Crabs:						
Hard..........number	206, 988	$4, 103	137, 088	$1, 142	1, 154, 196	$11, 129
Soft..........do	----------	----------	2, 340	195	17, 400	1, 740
Clams:						
Hard, public..........bushels	85, 986	44, 540	----------	----------	----------	----------
Hard, private..........do	2, 961	1, 890	----------	----------	----------	----------
Oysters:						
Market, public, spring..........do	236, 577	51, 468	12, 440	3, 755	2, 070, 706	260, 061
Market, public, fall..........do	263, 096	81, 104	69, 881	17, 723	490, 092	60, 546
Market, private, spring..........do	10, 672	3, 063	1, 264	480	----------	----------
Market, private, fall..........do	23, 742	6, 563	5, 288	1, 896	----------	----------
Scallops, bay..........do	3, 644	2, 139	----------	----------	----------	----------

Product	Louisiana		Texas		Total	
	Quantity	Value	Quantity	Value	Quantity	Value
Crabs:						
Hard..........number	7, 794, 780	$63, 457	49, 785	$1, 063	13, 583, 337	$105, 229
Soft..........do	437, 196	58, 068	----------	----------	1, 592, 676	117, 071
Clams:						
Hard, public..........bushels	----------	----------	----------	----------	119, 002	86, 970
Hard, private..........do	----------	----------	----------	----------	2, 961	1, 890
Oysters:						
Market, public, spring..........do	68, 087	11, 751	110, 938	35, 888	3, 100, 923	497, 275
Market, public, fall..........do	101, 998	24, 940	136, 334	43, 396	1, 408, 408	337, 486
Market, private, spring..........do	450, 924	201, 657	654	475	593, 466	242, 461
Market, private, fall..........do	594, 516	311, 698	1, 012	735	697, 566	338, 885
callops, bay..........do	----------	----------	----------	----------	75, 615	56, 062

Industries related to the fisheries of the South Atlantic and Gulf States, 1930

Item	North Carolina	South Carolina	Georgia	Florida	Alabama
Transporting:					
Persons engaged—	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	54	184	-----	51	12
On boats	5	7	-----	47	18
Total	59	191	-----	98	30
Vessels—					
Motor	33	13	-----	24	6
Net tonnage	315	138	-----	379	55
Sail	-----	40	-----	3	-----
Net tonnage	-----	368	-----	41	-----
Total vessels	33	53	-----	27	6
Total net tonnage	315	506	-----	420	55
Boats	3	33	-----	41	3
Wholesale and manufacturing:					
Establishments	71	32	29	224	21
Persons engaged—					
Proprietors	90	30	25	279	31
Salaried employees	26	27	27	106	16
Wage earners:					
Average for season	1, 052	1, 327	1, 090	1, 837	492
Average for year	305	491	407	861	218
Salaries and wages paid	$233, 924	$259, 398	$253, 445	$900, 298	$138, 240
Manufactured products [1]	$836, 751	$882, 538	$629, 668	$1, 995, 751	$329, 990
Fishermen's manufactured products:					
Persons engaged	417	37	-----	240	46
Products	$130, 219	$28, 937	-----	$46, 277	$7, 699

Item	Mississippi	Louisiana	Texas	Total
Transporting:				
Persons engaged—	*Number*	*Number*	*Number*	*Number*
On vessels	-----	133	3	437
On boats	26	246	-----	349
Total	26	379	3	786
Vessels—				
Motor	-----	65	1	142
Net tonnage	-----	525	6	1, 418
Sail	-----	-----	-----	43
Net tonnage	-----	-----	-----	409
Total vessels	-----	65	1	185
Total net tonnage	-----	525	6	1, 827
Boats	13	128	-----	221
Wholesale and manufacturing:				
Establishments	53	102	55	587
Persons engaged—				
Proprietors	72	133	66	726
Salaried employees	37	100	35	374
Wage earners:				
Average for season	2, 546	3, 821	1, 370	13, 535
Average for year	1, 056	1, 783	727	5, 848
Salaries and wages paid	$475, 692	$938, 868	$264, 176	$3, 464, 041
Manufactured products [1]	$2, 141, 119	$4, 618, 333	$886, 255	$12, 320, 405
Fishermen's manufactured products:				
Persons engaged	61	-----	210	1, 011
Products	$9, 658	-----	$42, 375	$265, 165

[1] These production figures are not comparable with those shown in previous bulletins since packaged fresh and frozen fishery products are now included.

NOTE.—Of the total number of persons employed on transporting craft, 408 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products 904 have been included as fishermen. These facts should be considered when computing the total number o persons in the fishery industries exclusive of duplication.

NORTH CAROLINA

Fisheries of North Carolina, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines		Gill nets			
	Menhaden	Other	Common	Long	Anchor	Drift	Run-around	Stake
ermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	734		18	138	81			
On boats and shore—								
Regular	56	28	1,092	308	310	189	193	324
Casual	8		500	19	93	20	117	97
Total	798	28	1,610	465	484	209	310	421
els:								
Motor—								
5 to 10 tons	8		6	34	15			
11 to 20 tons	5			2	1			
21 to 30 tons	3							
31 to 40 tons	10							
41 to 50 tons	6							
51 to 60 tons	6							
61 to 70 tons	3							
71 to 80 tons	2							
81 to 90 tons	1							
Total	44		6	36	16			
Net tonnage	1,634		37	249	114			
s:								
Motor	8	4	241	93	176	81	84	219
ther		8	540	55	140	75	137	123
ssory boats	104		2	15				
aratus:								
Number	52	4	580	87	2,529	170	426	11,229
ength, yards	13,335	700	80,708	84,650				
quare yards					1,287,852	172,203	198,979	741,300

Item	Lines				Pound nets	Weirs	Wheels	Fyke nets	Dip nets, common	Otter trawls	
	Hand	Troll	Trot, with baits or snoods	Trot, with hooks						Fish	Shrimp
rmen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
n vessels	15									12	10
n boats and shore—											
Regular	4	15	104	8	499	1	6	42	133		92
Casual	40		72	1	207		10	11	111		2
Total	59	15	176	9	706	1	16	53	244	12	104
ls:											
otor—											
5 to 10 tons	4										5
11 to 20 tons										3	
21 to 30 tons										1	
Total	4									4	5
Net tonnage	29									70	38
:											
otor	12	15	99		285	1	6	33	10		47
ther	10		60	9	248		20	27	202		
sory boats	2										
ratus:											
umber	98	15	177	14	2,343	4	50	847	244	4	52
ards at mouth										74	908
ooks, baits, or snoods	396	15	122,800	840							

Fisheries of North Carolina, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Box traps	Turtle traps	Pots, eel	Spears	Dredges			Tongs	Rakes	By hand	Tota excl sive dup catio
					Crab	Oyster	Scallop				
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Num*
Fishermen:											
On vessels						220		3			1,
On boats and shore—											
Regular		1	34	6	40	65	155	216	271	100	2,
Casual	10		20	48		41	29	261	327	95	1,
Total	10	1	54	54	40	326	184	480	598	195	5,
Vessels:											
Motor—											
5 to 10 tons						7					
11 to 20 tons						1					
21 to 30 tons											
31 to 40 tons											
41 to 50 tons											
51 to 60 tons											
61 to 70 tons											
71 to 80 tons											
81 to 90 tons											
Total						8					
Net tonnage						68					2,
Sail—											
5 to 10 tons						49		1			
11 to 20 tons						14					
21 to 30 tons						3					
Total						66		1			
Net tonnage						624		7			
Total vessels						74		1			
Total net tonnage						692		7			2,
Boats:											
Motor	4	1	16		40	39	134	192	58		1,
Other	4		35	54		26	10	201	441	80	1,
Accessory boats											
Apparatus:											
Number	10	30	1,502	54	80	243	328	480	643		
Yards at mouth					107	241	318				

CATCH: BY GEAR

Species	Purse seines				Haul seines			
	Menhaden		Other		Common		Long	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Val*
Alewives					1,998,727	$10,208	164,900	$1,
Black bass					56,143	8,005	32,770	4,
Bluefish					198,650	10,631	120,200	4,
Bonito					7,850	237		
Bowfin					4,929	123	2,301	
Butterfish					2,600	90	3,385	
Carp					182,225	12,622	123,864	9,
Catfish and bullheads					91,350	3,082	59,322	2,
Cod					400	8		
Croaker					733,000	10,080	2,024,760	32,
Drum, red or redfish					21,800	472	91,050	1,
Eels					100	7	1,610	
Flounders					35,450	1,668	13,800	
Gizzard shad					5,900	113	7,591	
Harvestfish					15,750	420	170,500	5,
Hickory shad					45,710	1,517	8,000	
King whiting or "kingfish"					70,050	2,723	13,800	
Menhaden	133,656,440	$534,478					394,800	1,
Mullet	79,010	2,288			923,240	36,160	277,200	3,
Pigfish					7,500	151	71,700	1,

Fisheries of North Carolina, 1930—Continued

CATCH: BY GEAR—Continued

Species	Purse seines				Haul seines			
	Menhaden		Other		Common		Long	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
e or pickerel					4,330	$472	1,190	$145
ish							30,000	450
pano					900	128	2,200	221
ies					1,000	30		
bass					47,200	2,760		
l					48,411	9,086	10,450	2,089
pshead					2,300	112	3,590	179
lefish							380	16
ish mackerel					9,150	608	1,815	146
					840,250	13,234	662,000	11,563
eteagues or "sea trout":								
Gray					399,450	15,968	419,937	16,370
Spotted					251,000	21,535	229,409	17,303
ped bass			10,000	$1,500	151,486	11,493	52,040	9,470
ish					6,275	131	1,722	35
te perch					178,962	13,051	98.246	6,115
ow perch					23,600	1,326	11,400	718
os:								
Soft					207,796	33,363		
Stone					350	11		
mp					94,250	3,497		
les, loggerhead					70	2		
Total	133,735,450	$536,766	10,000	1,500	6,658,154	225,124	5,133,932	134,778

Species	Gill nets							
	Anchor		Drift		Runaround		Stake	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
ives	451,000	$3,880	21,000	$105	4,000	$23	195,200	$1,179
fish	79,000	3,360	71,000	3,240	56,350	3,257	246,150	11,244
to	1,000	33	10,000	200				
erfish	2,100	69						
	3,750	295					1,500	23
sh and bullheads	10,800	532					600	30
	300	15						
ker	622,000	10,260	71,000	870	47,000	810	156,950	1,966
n, red or redfish	6,200	171	2,000	40	900	50	4,100	50
	300	21						
nders	3,100	165	1,000	40	6,000	293	4,350	169
ard shad	10,000	143						
estfish	1,000	30						
ory shad	38,900	2,505					73,700	2,799
whiting or "kingfish"	130,500	5,820	1,000	40			700	26
et	8,600	448	355,000	12,525	536,200	22,138	195,950	13,795
sh	4,700	92			300	3	2,800	57
pano			100	10	100	10	100	13
ass					10,000	500		
	310,500	53,687	52,200	10,280	4,800	770	250,450	45,115
pshead			350	15	450	33		
ish mackerel	7,000	560	30,500	2,940	50,000	5,000	3,500	222
	199,500	3,128	85,500	1,560	154,000	2,760	110,050	2,056
teagues or "sea trout":								
Gray	198,000	8,005	22,000	880	18,200	659	117,190	4,772
potted	20,000	2,100	11,000	900	50,700	4,671	105,450	91,211
relfish							100	5
ed bass	84,200	13,660	100	20	1,000	120	33,350	4,675
eon			1,500	600				
ers	5,500	220						
e perch	27,200	2,712					1,600	136
w perch	3,400	340						
Total	2,228,550	112,251	735,250	34,265	940,000	41,097	1,503,790	97,543

Fisheries of North Carolina, 1930—Continued

CATCH: BY GEAR—Continued

Species	Lines							
	Hand		Troll		Trot, with baits or snoods		Trot, with hoo	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Valu*
Bluefish	7, 750	$745						
Catfish and bullheads	1, 000	100					23, 100	$69
Cero	2, 000	120	7, 000	$560				
Crappie	250	50						
Drum, red or redfish	1, 000	20						
Eels	500	25						
Flounders	200	8						
Grunts	18, 000	360						
Pigfish	500	10						
Pinfish	500	8						
Sea bass	116, 000	4, 710						
Sheepshead	250	12						
Snapper, red	4, 750	195						
Spanish mackerel			15, 000	1, 200				
Squirrelfish	50	1						
Crabs, hard					1, 146, 500	$18, 745		
Octopus	1, 000	150						
Total	153, 750	6, 514	22, 000	1, 760	1, 146, 500	18, 745	23, 100	69

Species	Pound nets		Weirs		Wheels		Fyke nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	6, 799, 500	$50, 107			135, 000	$825	59, 400	$73
Black bass							17, 500	2, 62
Bluefish	11, 535	555						
Bowfin	1, 300	36					10, 700	35
Butterfish	146, 475	3, 227						
Carp	51, 350	2, 213	5, 000	$250			102, 500	7, 91
Catfish and bullheads	145, 700	7, 395					128, 200	6, 17
Cod	300	12						
Crappie	400	60						
Croaker	1, 113, 600	13, 358						
Drum, red or redfish	18, 000	343						
Eels	4, 000	332					3, 250	30
Flounders	110, 400	5, 109					13, 300	1, 18
Garfish	100	6						
Gizzard shad	10, 500	143					5, 000	9
Harvestfish	156, 050	4, 241						
Hickory shad	157, 150	6, 726					500	3
King whiting or "kingfish"	16, 000	664						
Mullet	9, 050	416					2, 100	16
Pigfish	6, 700	84						
Pike or pickerel	1, 000	150					3, 450	37
Pinfish	1, 400	22						
Pompano	5, 200	525						
Sea bass	50	5						
Shad	493, 650	88, 622					1, 200	24
Sheepshead	4, 675	234						
Spadefish	50	1						
Spanish mackerel	14, 200	1, 100						
Spot	270, 490	3, 933						
Squeteagues or "sea trout":								
Gray	1, 118, 350	34, 615						
Spotted	24, 950	2, 371						
Striped bass	106, 350	15, 569					16, 350	3, 64
Sturgeon	1, 100	240						
Suckers	8, 300	401					1, 150	3
Sunfish	500	13					300	
Tripletail	500	19						
White perch	89, 000	8, 185					47, 200	2, 79
Yellow perch	8, 700	626			6, 000	900	42, 100	2, 48
Turtle, snapper	200	10						
Total	10, 906, 775	251, 668	5, 000	250	141, 000	1, 725	454, 200	29, 14

Fisheries of North Carolina, 1930—Continued

CATCH: BY GEAR—Continued

Species	Dip nets, common		Otter trawls				Box traps	
			Fish		Shrimp			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
lewives	20,000	$100						
luefish			2,300	$256	50,000	$3,500		
od			200	10				
roaker			340,000	5,850				
lounders			80,000	3,800	54,200	2,690		
ing whiting or "kingfish"			15,200	608	25,100	802		
nad	500	100						
oot			5,000	100				
queteagues or "sea trout":								
Gray			9,700	435	30,300	909		
Spotted					1,800	180		
riped bass	1,000	150					1,000	$250
ıckers							700	70
ellow perch							1,000	225
rabs, soft	99,974	15,032						
nrimp					1,204,360	37,255		
Total	121,474	15,382	452,400	11,059	1,365,760	45,336	2,700	545

Species	Turtle traps		Pots, eel		Spears		Dredges			
							Crab		Oyster	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
els			132,500	$9,977						
lounders					28,000	$1,620				
rabs, soft							60,000	$7,200		
ysters:										
Market, public, spring									796,388	$49,652
Market, public, fall									720,599	60,413
urtles, snapper	300	$15								
Total	300	15	132,500	9,977	28,000	1,620	60,000	7,200	1,516,987	110,065

Species	Dredges—Scallop		Tongs		Rakes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
rabs:								
Hard	13,000	$250						
Soft	10,810	1,473						
lams, hard, public			35,200	$3,775	243,120	$31,480	38,400	$5,425
ysters:								
Market, public, spring			364,508	22,673			5,362	400
Market, public, fall			254,366	18,592			64,451	3,418
allops, bay	256,656	32,030			175,170	21,893		
errapin, diamond-back							90	45
Total	280,466	33,753	654,074	45,040	418,290	53,373	108,303	9,288

OPERATING UNITS: BY COUNTIES

Item	Beaufort	Bertie	Brunswick	Camden	Carteret	Chowan	Craven	Currituck
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
shermen:								
On vessels	56		179		788	3	3	
On boats and shore—								
Regular	151	25	81	8	1,102		11	278
Casual	93	15	51		248	169	70	1
Total	300	40	311	8	2,138	172	84	279

Fisheries of North Carolina, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Beaufort	Bertie	Brunswick	Camden	Carteret	Chowan	Craven	Currituck
Vessels:								
Motor—	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
5 to 10 tons			4		52		1	
11 to 20 tons					7			
21 to 30 tons					3	1		
31 to 40 tons			4		6			
41 to 50 tons			2		4			
51 to 60 tons			1		5			
61 to 70 tons			1		2			
71 to 80 tons					2			
81 to 90 tons			1					
Total			13		81	1	1	
Net tonnage			477		1,502	21	5	
Sail—								
5 to 10 tons	18				13			
11 to 20 tons	2				6			
21 to 30 tons	2							
Total	22				19			
Net tonnage	213				185			
Total vessels	22		13		100	1	1	
Total net tonnage	213		477		1,687	21	5	
Boats:								
Motor	93	16	26	5	460	45	45	116
Other	91	16	45	5	495	45	31	119
Accessory boats			18		97		2	
Apparatus:								
Purse seines—								
Menhaden			9		43			
Length, yards			2,335		11,000			
Haul seines—								
Common	13		9		305		4	101
Length, yards	3,950		1,500		21,946		900	18,850
Long		1			42		1	12
Length, yards		1,600			48,900		900	10,200
Gill nets—								
Anchor				90	102	200	14	183
Square yards				21,300	92,276	150,000	4,800	58,025
Drift					86			
Square yards					75,283			
Runaround	7		42		108		4	
Square yards	2,820		16,212		83,214		2,000	
Stake	712	3			1,696		378	110
Square yards	47,100	400			110,160		14,970	9,900
Lines—								
Hand					28			
Hooks					56			
Troll					15			
Hooks					15			
Trot, with baits or snoods	86							
Baits or snoods	63,600							
Trot, with hooks			2					
Hooks			240					
Pound nets	192	80			142	507	43	
Wheels		5					30	
Fyke nets				75		4		475
Dip nets, common					231			
Otter trawls—								
Fish						1		
Yards at mouth						20		
Shrimp			30		21			
Yards at mouth			495		396			
Pots, eel	45				50	150	40	860
Spears					19			
Dredges—								
Crab					80			
Yards at mouth					107			
Oyster	64				36			
Yards at mouth	54				44			
Scallop					328			
Yards at mouth					318			
Tongs			10		208			
Rakes			15		347			

Fisheries of North Carolina, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Dare	Gates	Hertford	Hyde	Lenoir	Martin	New Hanover	Onslow
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	3			3				3
On boats and shore—								
Regular	589		6	81		18	140	4
Casual		20		25	35	22	50	115
Total	592	20	6	109	35	40	190	122
Vessels:								
Motor—5 to 10 tons	1							1
Net tonnage	7							8
Sail—5 to 10 tons				1				
Net tonnage				6				
Boats:								
Motor	229	2	2	46	4	8	45	45
Other	189	20	3	32	16	26	90	50
Apparatus:								
Purse seines—Other	4							
Length, yards	700							
Haul seines—								
Common	67				4	3	22	22
Length, yards	19, 800				300	950	3, 520	2, 042
Long	27			2				
Length, yards	19, 850			1, 400				
Gill nets—								
Anchor	560							14
Square yards	222, 950							15, 000
Drift		20		10		12	42	
Square yards		2, 000		11, 660		850	82, 410	
Runaround	14			11			70	140
Square yards	8, 400			12, 833			10, 300	53, 200
Stake	6, 473			695	15	2		
Square yards	474, 570			44, 700	600	78		
Lines—								
Hand					20			50
Hooks					40			300
Trot, with baits or snoods	7			2				
Baits or snoods	5, 600			1, 600				
Trot, with hooks						7	5	
Hooks						350	250	
Pound nets	807	10	17	95				
Weirs						4		
Wheels						15		
Fyke nets	8	25				2		
Dip nets, common						12		
Box traps					10			
Turtle traps				30				
Pots, eel	100			5		16		
Spears								20
Dredges—								
Oyster	14			41				
Yards at mouth	14			32				
Tongs	26			30				55
Rakes	6						50	25

Item	Pamlico	Pasquotank	Pender	Perquimans	Pitt	Tyrrell	Washington
ishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	102	19					
On boats and shore—							
Regular	32	39	7	43	2	48	28
Casual	149		190		10	40	50
Total	283	58	197	43	12	88	78
essels:							
Motor—							
5 to 10 tons	6	2					
11 to 20 tons		4					
Total	6	6					
Net tonnage	41	79					

Fisheries of North Carolina, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Pamlico	Palquotank	Pender	Perquimans	Pitt	Tyrrell	Washington
Vessels—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Sail—							
5 to 10 tons	18						
11 to 20 tons	5	1					
21 to 30 tons	1						
Total	24	1					
Net tonnage	216	11					
Total vessels	30	7					
Total net tonnage	257	90					
Boats:							
Motor	89	19	4	23	1	36	16
Other	66	20	145	23	2	36	21
Accessory boats	6						
Apparatus:							
Haul seines—							
Common	8		19		1		2
Length, yards	1,900		2,850		600		1,600
Long	2						
Length, yards	1,800						
Gill nets—							
Anchor		556		425		265	120
Square yards		214,120		317,050		131,411	60,920
Runaround			30				
Square yards			10,000				
Stake	445	60				640	
Square yards	12,950	2,400				23,472	
Lines—							
Trot with baits or snoods	82						
Baits or snoods	52,000						
Pound nets	179	22		62		120	67
Fyke nets		124				134	
Dip nets, common							1
Otter trawls—							
Fish		3					
Yards at mouth		54					
Shrimp			1				
Yards at mouth			17				
Pots, eel	40	36		100		60	
Spears			15				
Dredges—							
Oyster	80	8					
Yards at mouth	88	9					
Tongs	91		60				
Rakes			200				

CATCH: BY COUNTIES

Species	Beaufort		Bertie		Brunswick		Camden	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	391,000	$1,964	1,188,000	$5,940			16,000	$175
Black bass							2,500	375
Bluefish					50,000	$3,500		
Bowfin							1,200	24
Butterfish	15,000	300						
Carp	19,200	565					8,000	640
Catfish and bullheads	14,200	630	1,000	50	2,100	63	3,000	120
Croaker	187,000	1,910			32,000	320		
Drum, red or redfish					1,800	108		
Eels	10,000	1,000					600	45
Flounders	17,800	819			54,200	2,690	100	5
Gizzard shad							500	8
Hickory shad	16,700	481					500	25
King whiting or "kingfish"					26,100	862		
Menhaden					24,325,200	121,344		
Mullet	32,700	1,358			237,510	9,188	1,500	120
Pigfish	500	15						
Pike or pickerel							250	25
Pompano	100	10						
Sea bass					17,200	860		

Fisheries of North Carolina, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Beaufort		Bertie		Brunswick		Camden	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
ad	65, 550	$15, 182	11, 400	$1, 760	3, 800	$570	1, 500	$300
eepshead	150	12			300	21		
ot	12, 000	230			14, 000	280		
ueteagues or "sea trout":								
Gray	69, 000	2, 070			31, 000	930		
Spotted	4. 500	450			11, 800	1, 180		
iped bass	7, 300	755	3. 500	425			3, 000	600
iite perch	4, 400	440	22, 000	1, 630			6, 800	430
llow perch	3, 100	205					2, 500	125
abs, hard	761, 200	8, 782						
rimp					453, 500	13, 305		
ams, hard, public					20, 800	3, 100		
sters:								
Market, public, spring	86, 711	8, 230						
Market, public, fall	153, 970	17, 250			5, 898	550		
Total	1, 872, 081	62, 658	1, 225, 900	9, 805	25, 287, 208	158, 871	47, 950	3, 017

Species	Carteret		Chowan		Craven		Currituck	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
ewives	37, 000	$420	3, 172, 800	$28, 529	127, 500	$836	16, 900	$418
ack bass							89, 213	12, 965
iefish	446, 800	20, 355	500	40	16, 350	327	4, 500	225
nito	11, 000	233					1, 000	30
wfin							13, 980	463
tterfish	32, 785	1, 076			49, 000	980	1, 000	50
rp			4, 500	210			352, 689	26, 518
tfish and bullheads			60, 000	3, 000			165, 572	6, 979
ro	9, 000	680						
d			200	10			300	15
oaker	2, 435, 750	41, 374	75, 000	1, 400	217, 810	2, 178	65, 000	1, 300
um, red or redfish	66, 050	1, 108			1, 000	10	1, 000	40
s	1, 000	100	3, 400	292	20, 000	1, 400	52, 110	3, 769
unders	31, 750	1, 508	20, 100	806	14, 300	419	13, 250	947
zard shad			4, 000	40			11, 991	210
unts	18, 000	360						
rvestfish	231, 000	7, 560					1, 000	30
ckory shad	48, 200	1, 570	16, 400	1, 200	3, 500	105	3, 000	175
ng whiting or "kingfish"	142, 200	5, 624	1, 200	48			7, 500	375
nhaden	109, 726, 040	414, 287						
llet	926, 440	25, 748			121, 100	8, 432	2, 800	196
fish	84, 700	1, 437					850	11
e or pickerel							7, 820	868
fish	31, 500	473						
npano	2, 650	261					200	30
bass	110, 050	4, 405						
d	41, 000	7, 690	72, 350	13, 175	53, 150	10, 655	22, 800	3, 839
epshead	4, 890	232					400	23
pper, red	2, 750	155						
defish	380	16						
nish mackerel	108, 165	10, 124					850	85
t	1, 392, 350	22, 943	5, 000	100	76, 000	1, 270	16, 000	330
eteagues or "sea trout":								
Gray	695, 690	28, 292	5, 000	200	91, 537	2, 146	18, 000	960
Spotted	206, 550	14, 942			29, 809	3, 577	18, 000	1, 640
irrelfish	50	1						
ped bass	17, 290	1, 644	19, 800	3, 910	16, 350	2, 438	61, 822	11, 999
kers			8, 000	380			500	10
fish							7, 597	158
ite perch	400	20	10, 500	900			202, 448	11, 590
low perch			3, 500	280	6, 000	900	57, 350	3, 132
bs:								
Hard	13, 000	250						
Soft	378, 580	57, 068						
imp	799, 860	25, 650						
ms, hard, public	184, 000	23, 125						

Fisheries of North Carolina, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Carteret		Chowan		Craven		Currituck	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Valu
Oysters:								
Market, public, spring	589, 820	29, 820						
Market, public, fall	379, 683	26, 014						
Scallops, bay	431, 826	53, 923						
Octopus	1, 000	150						
Terrapin, diamond-back	90	45						
Turtles, loggerhead							70	
Total	119, 639, 289	830, 683	$3,482,250	$54, 520	843, 406	$35, 673	1, 217, 512	89, 3

Species	Dare		Gates		Hertford		Hyde	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Valu
Alewives	206, 400	$3, 278	40, 000	$600	103, 000	$575	58, 000	$9
Black bass	13, 500	2, 025						
Bluefish	194, 685	11, 979					127, 400	5, 0
Bonito	6, 850	207						
Bowfin	1, 300	26	500	10				
Butterfish	23, 775	660					54, 500	1, 1
Carp	47, 150	2, 016	300	15			1, 000	
Catfish and bullheads	47, 000	1, 810	6, 200	260				
Cod	700	20						
Crappie			400	60				
Croaker	460, 550	7, 802					599, 000	5, 8
Drum, red or redfish	22, 100	494					42, 000	6
Eels	9, 100	690	200	16			1, 000	1
Flounders	79, 800	3, 984					2, 500	1
Garfish	100	6						
Gizzard shad	2, 500	45						
Harvestfish	38, 700	1, 049					72, 600	1, 4
Hickory shad	132, 500	6, 105	1, 000	60			17, 750	4
King whiting or "kingfish"	43, 950	1, 476					6, 400	3
Mullet	79, 200	3, 246					196, 500	6, 0
Pigfish	3, 650	68						
Pike or pickerel	1, 200	174						
Pinfish	400	7						
Pompano	5, 650	606						
Shad	578, 400	95, 498	4, 950	800	500	75	10, 700	1, 8
Sheepshead	1, 350	72					3, 225	1
Spadefish	50	1						
Spanish mackerel	8, 050	791					8, 100	4
Spot	219, 240	3, 807					161, 200	3, 2
Squeteagues or "sea trout":								
Gray	746, 450	27, 085					355, 250	11, 7
Spotted	346, 050	29, 157					43, 100	3, 5
Squirrelfish	100	5						
Striped bass	136, 200	19, 705	400	74			2, 200	
Sturgeon	700	140					400	1
Suckers			200	8				
Sunfish	1, 200	27						
Tripletail	500	19						
White perch	26, 750	1, 365	2, 500	260	1, 000	100		
Yellow perch	6, 350	3, 222	200	16				
Crabs, hard	50, 000	800					13, 300	1
Clams, hard, public	1, 600	400					800	1
Oysters:								
Market, public, spring	179, 856	9, 625					70, 526	6, 6
Market, public, fall	33, 244	2, 800					65, 550	6, 2
Turtles, snapper							300	
Total	3, 756, 850	239, 392	56, 850	2, 179	104, 500	750	1, 913, 301	56, 3

Fisheries of North Carolina, 1930—Continued

CATCH: By COUNTIES—Continued

Species	Lenoir		Martin		New Hanover		Onslow	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
lewives			214,000	$1,220				
arp	1,000	$50	16,000	800				
atfish and bullheads	1,000	100	13,500	405	10,000	$300		
rappie	250	50						
roaker					2,100	42	12,000	$130
rum, red or redfish					600	24		
els	500	25	15,000	750				
lounders					4,500	225	7,000	490
ickory shad	3,000	150						
ing whiting or "kingfish"					1,000	100	30,000	1,800
Iullet					330,000	16,500	169,000	6,305
orgies					1,000	30		
ea bass					40,000	2,400	6,000	310
nad	2,000	400	1,500	300	48,000	9,600		
napper, red							2,000	40
panish mackerel					6,000	300		
pot					143,000	2,860	15,000	175
queteagues or "sea trout":								
Gray							2,500	85
Spotted					1,000	100	8,500	1,025
triped bass	4,000	1,000	6,000	825				
turgeon					1,500	600		
ickers	700	70						
Vhite perch			2,000	200				
ellow perch	1,000	225						
rabs, stone							350	11
nrimp					43,250	1,297		
lams, hard, public					56,000	8,750	12,000	1,125
ysters:								
Market, public, spring							16,086	1,000
Market, public, fall							16,086	1,000
Total	13,450	2,070	268,000	4,500	687,950	43,128	296,522	13,496

Species	Pamlico		Pasquotank		Pender		Perquimans	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
lewives	75,000	$668	101,500	$1,580			180,000	$1,600
lack bass			1,200	180				
luefish	900	43	1,800	216				
owfin			1,250	15			1,000	30
utterfish	6,500	130						
arp	700	13	3,150	237			5,500	275
atfish and bullheads			64,800	2,695			33,000	1,960
roaker	752,000	8,530	265,100	4,453	5,000	$150		
rum, red or redfish	10,500	80						
els	5,000	400	4,750	330			15,100	1,510
lounders	27,200	1,193	62,700	3,157	5,000	250	2,100	90
izzard shad			15,000	258			5,000	53
ickory shad	14,500	485	10,000	530			17,500	1,360
ing whiting or "kingfish"			14,000	560				
Iullet	100,400	8,030	2,700	216	185,000	5,975	1,500	120
igfish	4,500	65						
ike or pickerel			700	70				
nad	73,000	14,800	61,300	10,257			85,000	16,885
neepshead	1,300	64						
pot	148,000	1,680			125,000	1,435		
queteagues or "sea trout":								
Gray	314,000	8,875	4,700	235				
Spotted	25,000	2,650						
triped bass	1,100	43	25,000	4,800			60,000	9,000
ickers			450	15			5,800	241
Vhite perch			18,700	1,586			52,000	5,200
ellow perch			4,300	226			500	50
rabs, hard	322,000	9,030						
nrimp					2,000	500		
lams, hard, public					41,520	4,080		
ysters:								
Market, public, spring	208,245	15,278	15,014	2,100				
Market, public, fall	376,942	27,521	8,043	1,080				
Total	2,466,787	99,578	686,157	34,796	363,520	12,390	464,000	38,374

Fisheries of North Carolina, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Pitt		Tyrrell		Washington	
	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	70, 000	$350	1, 798, 400	$8, 992	2, 043, 227	$10, 21
Carp	1, 000	50	10, 000	1, 000		
Catfish and bullheads			28, 700	1, 435	10, 000	50
Eels			4, 500	360		
Flounders			7, 500	750		
Hickory shad	1, 200	36			38, 210	1, 15
Shad	2, 250	461	13, 400	2, 680	19, 611	3, 22
Striped bass			12, 100	1, 855	80, 814	1, 39
White perch	1, 000	100	12, 800	1, 280	78, 910	7, 89
Yellow perch			11, 400	1, 140		
Turtles, snapper					200	1
Total	75, 450	997	1, 898, 800	19, 492	2, 270, 972	24, 38

Industries related to the fisheries of North Carolina, 1930

TRANSPORTING

Item	Beaufort County	Bertie County	Carteret County	Craven County	Dare County	Hyde County	Pasquotank County	Washington County	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Persons engaged:									
On vessels	13		20	3	8	2	6	2	54
On boats		1		4					5
Total	13	1	20	7	8	2	6	2	59
Vessels, motor:									
5 to 10 tons	4		14	2	1			1	22
11 to 20 tons	2		2	1	3	1	1		10
21 to 30 tons							1		1
Total	6		16	3	4	1	2	1	33
Net tonnage	61		117	25	43	16	47	6	315
Boats		1		2					3

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Beaufort County	Brunswick County	Carteret County	Craven and Pamlico Counties	New Hanover Counties	Washington, Pasquotank, and Bertie Counties	Total
Establishments	10	3	36	11	5	6	71
Persons engaged:							
Proprietors	11	4	47	13	5	10	90
Salaried employees	1	3	18	1		3	26
Wage earners—							
Average for season	159	134	323	213	3	220	1, 052
Average for year	66	22	127	59		31	305
Paid to salaried employees	$4, 080	$5, 595	$25, 010	$500		$13, 577	$48, 762
Paid to wage earners	28, 335	15, 952	93, 443	28, 014	$1, 150	18, 268	185, 162
Total salaries and wages	32, 415	21, 547	118, 453	28, 514	1, 150	31, 845	233, 924

Industries related to the fisheries of North Carolina, 1930—Continued

WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Alewives, salted...pounds	795,000	$24,500
Menhaden products:		
Acid scrap...tons	3,379	83,414
Dry scrap...do	2,894	133,149
Meal...do	1,457	76,909
Oil...gallons	308,472	51,877
Mullet, salted...pounds	666,660	42,109
Spot, salted...do	172,000	10,220
Oysters:		
Fresh-shucked...gallons	112,539	140,465
Canned...standard cases	9,945	49,529
Miscellaneous [1]	(2)	224,579
Total		836,751

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 417]

Item	Quantity	Value
Alewives:		
Salted...pounds	2,245,800	$38,971
Corned...do	1,505,800	27,280
Mullet, salted...do	143,200	10,828
Sturgeon roe, fresh...do	140	140
Scallops, bay, fresh-shucked...gallons	47,000	53,000
Total		130,219

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[1] Includes fresh-cooked crab meat; cooked and canned shrimp; pickled alewives; fresh fillets of butterfish, croaker, and squeteague; canned alewife roe; and oyster-shell products.

[2] Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 1 has also been included as a fisherman, and among the total persons engaged in the preparation of fishermen's manufactured products, 344 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries, exclusive of duplication.

SOUTH CAROLINA

Fisheries of South Carolina, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets			Lines		Dip nets, common
		Anchor	Drift	Run-around	Hand	Trot, with baits or snoods	
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:							
On vessels					21		
On boats and shore—							
Regular	18	40	50	27	91	6	10
Casual	288	191	230		15		
Total	306	231	280	27	127	6	10
Vessels, motor:							
5 to 10 tons					2		
11 to 20 tons					1		
Total vessels					3		
Total net tonnage					29		
Boats:							
Motor	3	1	10		9		
Other	79	201	172	27	40		10
Apparatus:							
Number	21	282	157	27	127	6	10
Length, yards	3,535						
Square yards		82,000	160,790	13,000			
Hooks, baits, or snoods					460	4,800	

Fisheries of South Carolina, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Otter trawls, shrimp	Spears	Dredges, oyster	Tongs	Rakes	Grabs	By hand	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	19		6					39
On boats and shore—								
Regular	52	30		27	15	451	40	705
Casual	6			50	32	50	9	756
Total	77	30	6	77	47	501	49	1, 500
Vessels, motor:								
5 to 10 tons	3							5
11 to 20 tons	4		1					5
Total vessels	7		1					10
Total net tonnage	88		19					124
Boats:								
Motor	29							51
Other		30		45	31	477	7	969
Apparatus:								
Number	36	30	2	77	47	501		
Yards at mouth	675		3					

CATCH: BY GEAR

Species	Haul seines		Gill nets					
			Anchor		Drift		Runaround	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					2, 000	$10		
Croaker	1, 000	$10						
Drum, red or redfish	7, 350	377						
Flounders	2, 000	100					725	$36
Hickory shad			3, 250	$145	4, 250	185		
King whiting or "kingfish"	3, 080	201						
Mullet	358, 000	18, 272					54, 000	2, 700
Shad			89, 857	15, 428	122, 310	16, 589		
Spot	11, 200	324					17, 000	340
Squeteagues or "sea trout":								
Gray	2, 000	100						
Spotted	7, 400	740					2, 300	230
Sturgeon			8, 464	1, 693	6, 500	1, 300		
Terrapin, diamond-back	1, 619	598						
Total	393, 649	20, 722	101, 571	17, 266	135, 060	18, 084	74, 025	3, 306

Fisheries of South Carolina, 1930—Continued

CATCH: BY GEAR—Continued

Species	Lines				Dip nets, common		Otter trawls, shrimp		Spears	
	Hand		Trot, with baits or snoods							
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
luefish	100	$10								
atfish and bullheads	2, 000	40								
roaker	1, 000	50								
rum:										
Black	500	25								
Red or redfish	1, 000	89								
lounders	300	30					2, 000	$100	25, 000	$2, 000
runts	8, 000	640								
ing whiting or "kingfish"	30, 000	3, 000					5, 000	250		
igfish	725	22								
infish	2, 000	80								
ompano	100	15								
orgies	100	8								
ea bass	197, 250	15, 587								
ıad					2, 325	$348				
ıarks	10, 000	200								
ıeepshead	100	10								
ates	1, 000	50								
ıapper, mangrove	3, 000	240								
oot	100	5								
queteagues or "sea trout":										
Gray	20, 000	1, 600					2, 000	20		
Spotted	1, 200	120								
quirrelfish	350	18								
rabs, hard			26, 000	$780						
ırimp							792, 733	31, 814		
ctopus	3, 500	290								
Total	282, 325	22, 129	26, 000	780	2, 325	348	801, 733	32, 184	25, 000	2, 000

Species	Dredges, oyster		Tongs		Rakes		Grabs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
lams, hard, public					11, 200	$1, 400				
ysters:										
Market, public, spring							1, 738, 968	$58, 387	3, 089	$500
Market, public, fall			9, 221	$750	6, 915	450	661, 370	23, 714	6, 454	1, 000
Market, private, spring	115, 255	$10, 000	43, 566	2, 363			387, 257	21, 000		
Market, private, fall			22, 853	1, 238			253, 561	13, 750		
errapin, diamond-back									4, 200	1, 488
Total	115, 255	10, 000	75, 640	4, 351	18, 115	1, 850	3, 041, 156	116, 851	13, 743	2, 988

OPERATING UNITS: BY COUNTIES

Item	Beaufort	Charleston	Colleton	Georgetown	Horry
	Number	*Number*	*Number*	*Number*	*Number*
shermen:					
On vessels		39			
On boats and shore—					
Regular	326	256		100	23
Casual	74	143	129	230	180
Total	400	438	129	330	203
ssels, motor:					
5 to 10 tons		5			
11 to 20 tons		5			
Total vessels		10			
Total net tonnage		124			

Fisheries of South Carolina, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Beaufort	Charleston	Colleton	Georgetown	Horry
	Number	*Number*	*Number*	*Number*	*Number*
Boats:					
Motor	------	35	1	12	3
Other	372	230	109	188	70
Apparatus:					
Haul seines	2	2	------	4	13
Length, yards	135	100	------	800	2, 500
Gill nets—					
Anchor	60	40	142	40	------
Square yards	12, 000	16, 000	35, 400	18, 600	------
Drift	20	17	20	100	------
Square yards	10, 000	24, 100	24, 000	102, 690	------
Runaround	------	------	------	27	------
Square yards	------	------	------	13, 000	------
Lines—					
Hand	------	92	------	20	15
Hooks	------	360	------	40	60
Trot, with baits or snoods	------	6	------	------	------
Baits or snoods	------	4, 800	------	------	------
Dip nets, common	------	------	------	------	10
Otter trawls, shrimp	------	35	------	1	------
Yards at mouth	------	655	------	20	------
Spears	------	------	------	30	------
Dredges, oyster	------	2	------	------	------
Yards at mouth	------	3	------	------	------
Tongs	10	17	------	------	50
Rakes	------	------	------	15	32
Grabs	316	185	------	------	------

CATCH: BY COUNTIES

Species	Beaufort		Charleston		Colleton		Georgetown		Horry	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	------	------	------	------	------	------	2, 000	$10	------	------
Bluefish	------	------	100	$10	------	------	------	------	------	------
Catfish and bullheads	------	------	2, 000	40	------	------	------	------	------	------
Croaker	------	------	1, 000	50	------	------	1, 000	10	------	------
Drum:										
Black	------	------	500	25	------	------	------	------	------	------
Red or redfish	------	------	1, 000	89	------	------	3, 250	162	4, 100	$215
Flounders	------	------	2, 300	130	------	------	26, 025	2, 051	1, 700	85
Grunts	------	------	8, 000	640	------	------	------	------	------	------
Hickory shad	500	$50	------	------	------	------	7, 000	280	------	------
King whiting or "kingfish"	------	------	35, 000	3, 250	------	------	450	27	2, 630	174
Mullet	------	------	------	------	------	------	104, 000	5, 200	308, 000	15, 772
Pigfish	------	------	------	------	------	------	------	------	725	22
Pinfish	------	------	------	------	------	------	1, 000	50	1, 000	30
Pompano	------	------	100	15	------	------	------	------	------	------
Porgies	------	------	100	8	------	------	------	------	------	------
Sea bass	------	------	182, 000	14, 560	------	------	4, 000	240	11, 250	787
Shad	13, 927	2, 785	20, 750	3, 882	54, 700	$9, 965	122, 790	15, 385	2, 325	348
Sharks	------	------	10, 000	200	------	------	------	------	------	------
Sheepshead	------	------	100	10	------	------	------	------	------	------
Skates	------	------	1, 000	50	------	------	------	------	------	------
Snapper, mangrove	------	------	3, 000	240	------	------	------	------	------	------
Spot	------	------	100	5	------	------	18, 200	364	10, 000	300
Squeteagues or "sea trout":										
Gray	------	------	22, 000	1, 620	------	------			2, 000	100
Spotted	------	------	------	------	------	------	4, 800	480	6, 100	610
Squirrelfish	------	------	350	18	------	------	------	------	------	------
Sturgeon	------	------	------	------	8, 464	1, 693	6, 500	1, 300	------	------
Crabs, hard	------	------	26, 000	780	------	------	------	------	------	------
Shrimp	------	------	780, 233	31, 189	------	------	12, 500	625	------	------
Clams, hard, public	------	------	------	------	------	------	4, 800	600	6, 400	800
Oysters:										
Market, public, spring	1, 157, 797	38, 835	584, 260	20, 052	------	------	------	------	------	------
Market, public, fall	564, 095	20, 514	103, 730	4, 200	------	------	6, 915	450	9, 220	750
Market, private, spring	15, 905	863	530, 173	32, 500	------	------	------	------	------	------
Market, private, fall	22, 853	1, 238	253, 561	13, 750	------	------	------	------	------	------
Octopus	------	------	3, 500	290	------	------	------	------	------	------
Terrapin, diamond-back	4, 019	1, 411	1, 800	675	------	------	------	------	------	------
Total	1, 779, 096	65, 696	2, 572, 657	128, 278	63, 164	11, 658	325, 230	27, 234	365, 450	19, 993

Industries related to the fisheries of South Carolina, 1930

TRANSPORTING

Item	Beaufort County	Charleston County	Total
	Number	*Number*	*Number*
Persons engaged:			
On vessels	78	28	106
On boats	7		7
Total	85	28	113
Vessels:			
Motor—			
5 to 10 tons		7	7
11 to 20 tons	1	5	6
Total	1	12	13
Net tonnage	13	125	138
Sail—			
5 to 10 tons	26	3	29
11 to 20 tons	9	1	10
21 to 30 tons	1		1
Total	36	4	40
Net tonnage	330	38	368
Total vessels	37	16	53
Total net tonnage	343	163	506
Boats	28	5	33

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Beaufort County	Charleston County	Georgetown County	Total
Establishments	17	12	3	32
Persons engaged:				
Proprietors	18	12	3	33
Salaried employees	8	13	3	24
Wage earners—				
Average for season	833	460	34	1, 327
Average for year	286	191	14	491
Paid to salaried employees	$26, 271	$42, 248	$1, 405	$69, 924
Paid to wage earners	95, 908	80, 276	13, 290	189, 474
Total salaries and wages	122, 179	122, 524	14, 695	259, 398

PRODUCTS MANUFACTURED

Item		Quantity	Value
Shrimp, canned	standard cases	40, 108	$245, 688
Oysters:			
Fresh-shucked	gallons	32, 943	38, 750
Canned	standard cases	93, 288	408, 465
Miscellaneous [1]		(2)	189, 635
Total			882, 538

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 37]

Item		Quantity	Value
Mullet, salted	pounds	360, 000	$28, 800
Sturgeon roe, salted	do	182	137
Total		360, 182	28, 937

[1] Includes menhaden and oyster-shell products.

[2] Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 74 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 37 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

GEORGIA

Fisheries of Georgia, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines, menhaden	Haul seines	Gill nets				Lines	
			Anchor	Drift	Run-around	Stake	Hand	Trot, with baits or snoods
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	90						8	
On boats and shore—								
Regular		28		12	34	2		6
Casual		32	22	265	11	53		
Total	90	60	22	277	45	55	8	6
Vessels:								
Steam—								
41 to 50 tons	1							
51 to 60 tons	1							
61 to 70 tons	1							
Total	3							
Net tonnage	166							
Motor—								
11 to 20 tons							1	
Net tonnage							14	
Total vessels	3						1	
Total net tonnage	166						14	
Boats:								
Motor				6	13	1		
Other		24	19	140	32	42		6
Accessory boats	9						3	
Apparatus:								
Number	3	16	27	146	45	105	8	6
Length, yards	900	1,850						
Square yards			6,090	275,045	14,310	54,540		
Hooks, baits, or snoods							16	1,950

Item	Lines, trot, with hooks	Fyke nets	Cast nets	Otter trawls, shrimp	Traps, crab	Tongs	Rakes	Grabs	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				46					144
On boats and shore—									
Regular			22	288	30	62		34	371
Casual	68	30	18	15		46	6	50	472
Total	68	30	40	349	30	108	6	84	987
Vessels:									
Steam—									
41 to 50 tons									1
51 to 60 tons									1
61 to 70 tons									1
Total									3
Net tonnage									166
Motor—									
5 to 10 tons				21					21
11 to 20 tons				2					3
Total				23					24
Net tonnage				181					195
Total vessels				23					27
Total net tonnage				181					361
Boats:									
Motor				175					178
Other	18	10	40		30	108	6	64	421
Accessory boats									12
Apparatus:									
Number	68	60	40	182	30	108	6	84	
Yards at mouth				3,774					
Hooks, baits, or snoods	3,400								

Fisheries of Georgia, 1930—Continued

CATCH: BY GEAR

Species	Purse seines, menhaden		Haul seines		Gill nets			
					Anchor		Drift	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Croaker			1,000	$20				
Flounders			300	24				
Hickory shad					2,600	$208	15,700	$1,226
Menhaden	24,701,250	$94,100						
Mullet			30,000	1,500			5,000	250
Shad					15,800	3,160	223,705	44,541
Spot			1,200	24				
Squeteagues or "sea trout", spotted			1,300	130				
Sturgeon							4,500	900
Terrapin, diamond-back			19,700	5,040				
Total	24,701,250	94,100	53,500	6,738	18,400	3,368	248,905	46,917

Species	Gill nets—Continued				Lines			
	Runaround		Stake		Hand		Trot, with baits or snoods	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish					1,012	$227		
Croaker	14,500	$290						
Drum:								
Black	1,000	30						
Red or redfish	5,250	210						
Flounders	5,300	365						
Groupers					7,354	441		
Grunts					390	32		
Hickory shad			7,200	$576				
Jewfish					4,629	232		
King whiting or "kingfish"	16,250	363						
Mullet	72,800	4,245						
Sea bass	2,000	80			20,840	2,005		
Shad			35,250	7,050				
Sheepshead	700	42						
Snapper:								
Mangrove					200	16		
Red					29,854	2,462		
Spot	3,750	55						
Squeteagues or "sea trout":								
Gray	3,000	130						
Spotted	47,150	3,762						
Striped bass			500	100				
Crabs, hard							154,000	$3,080
Total	171,700	9,572	42,950	7,726	64,279	5,415	154,000	3,080

Species	Lines—Trot, with hooks		Fyke nets		Cast nets		Otter trawls, shrimp	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads	16,000	$740	212,000	$6,360				
Flounders							3,200	$224
King whiting or "kingfish"							22,000	1,100
Mullet					69,000	$3,800		
Spot							7,000	140
Crabs, hard							7,000	140
Shrimp							8,852,712	334,576
Total	16,000	740	212,000	6,360	69,000	3,800	8,891,912	336,180

Fisheries of Georgia, 1930—Continued

CATCH: BY GEAR—Continued

Species	Pots, crab		Tongs		Rakes		Crabs	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, hard	67,000	$1,340						
Clams, hard, public					2,240	$350		
Oysters:								
Market, public, spring			29,978	$2,740				
Market, public, fall			21,161	1,440				
Market, private, spring			18,957	2,060			31,752	$1,363
Market, private, fall			18,975	1,356			38,562	1,649
Total	67,000	1,340	89,071	7,596	2,240	350	70,314	3,012

OPERATING UNITS: BY COUNTIES

Item	Bryan	Bullock	Camden	Charleston	Chatham	Glynn
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			94		24	24
On boats and shore—						
Regular			50		68	180
Casual	55	16	44	18	212	56
Total	55	16	188	18	304	260
Vessels:						
Steam—						
41 to 50 tons			1			
51 to 60 tons			1			
61 to 70 tons			1			
Total			3			
Net tonnage			166			
Motor—						
5 to 10 tons			2		7	11
11 to 20 tons					2	1
Total			2		9	12
Net tonnage			18		79	88
Total vessels			5		9	12
Total net tonnage			184		79	88
Boats:						
Motor			27		62	68
Other	29	8	20	9	165	102
Accessory boats			9		3	
Apparatus:						
Purse seines, menhaden			3			
Length, yards			900			
Haul seines					4	12
Length, yards					300	1,550
Gill nets—						
Anchor	5					13
Square yards	1,900					1,610
Drift	26	8	22	9	31	25
Square yards	83,200	3,056		2,700	162,505	8,100
Runaround					20	22
Square yards					4,390	9,170
Stake					75	
Square yards					49,080	
Lines—						
Hand					8	
Hooks					16	
Trot, with baits or snoods						6
Baits or snoods						1,950
Trot, with hooks					68	
Hooks					3,400	
Cast nets					20	20
Otter trawls, shrimp			27		54	80
Yards at mouth			540		1,080	1,736
Pots, crab						30
Tongs					46	20
Rakes					6	
Grabs					84	

Fisheries of Georgia, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Liberty	Long	McIntosh	Screven	Tattnall	Wayne
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:						
On vessels			2			
On boats and shore—						
Regular	22		51			
Casual		6	30	3	20	12
Total	22	6	83	3	20	12
Vessels:						
Motor—						
5 to 10 tons			1			
Total net tonnage			10			
Boats:						
Motor	1		19		1	
Other	20	3	32	3	18	12
Apparatus:						
Gill nets—						
Anchor		6		3		
Square yards		1, 180		1, 400		
Drift			13			12
Square yards			13, 300			2, 184
Runaround			3			
Square yards			750			
Stake					30	
Square yards					5, 460	
Fyke nets			60			
Otter trawls, shrimp	1		20			
Yards at mouth	18		400			
Tongs	20		22			

CATCH: BY COUNTIES

Species	Bryan		Bullock		Camden		Charlton	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Hickory shad	2, 900	$232	700	$56	1, 200	$96		
Menhaden					24, 701, 250	94, 100		
Shad	43, 400	8, 680	2, 800	360	18, 500	3, 700	12, 300	$2, 460
Shrimp					1, 052, 000	41, 980		
Total	46, 300	8, 912	3, 500	416	25, 772, 950	139, 876	12, 300	2, 460

Species	Chatham		Glynn		Liberty		Long	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bluefish	1, 012	$227						
Catfish and bullheads	16, 000	740						
Croaker	3, 200	64	12, 300	$246				
Drum:								
Black			1, 000	30				
Red or redfish			5, 250	210				
Flounders	300	15	8, 500	598				
Groupers	7, 354	441						
Grunts	390	32						
Hickory shad	6, 500	490	7, 700	616			600	$48
Jewfish	4, 629	232						
King whiting or "kingfish"	15, 000	300	23, 250	1, 163				
Mullet	91, 500	5, 440	76, 300	3, 815				
Sea bass	20, 840	2, 005	2, 000	80				
Shad	95, 005	19, 001	71, 500	14, 300			2, 100	420
Sheepshead			700	42				
Snapper:								
Mangrove	200	16						
Red	29, 854	2, 462						
Spot	2, 000	20	9, 950	199				
Squeteagues or "sea trout":								
Gray	1, 000	30	2, 000	100				
Spotted	150	12	48, 300	3, 880				

Fisheries of Georgia, 1930—Continued

CATCH: By counties—Continued

Species	Chatham		Glynn		Liberty		Long	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Striped bass	500	$100						
Sturgeon	1,500	300						
Crabs, hard			228,000	$4,560				
Shrimp	2,897,614	114,904	3,642,098	145,684	54,000	$2,160		
Clams, hard, public	2,240	350						
Oysters:								
Market, public, spring	10,140	690	4,408	300				
Market, public, fall	3,527	240	17,634	1,200				
Market, private, spring	33,075	1,423			17,634	2,000		
Market, private, fall	57,537	3,005						
Terrapin, diamond-back	14,500	4,000	5,200	1,040				
Total	3,315,567	156,539	4,166,090	178,063	71,634	4,160	2,700	$468

Species	McIntosh		Screven		Tattnall		Wayne	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Catfish and bullheads	212,000	$6,360						
Hickory shad	3,800	304			1,200	$96	900	$72
Mullet	9,000	540						
Shad	12,000	2,400	1,900	$380	11,250	2,250	4,000	800
Sturgeon	3,000	600						
Shrimp	1,207,000	29,848						
Oysters, market, public, spring	15,430	1,750						
Total	1,462,230	41,802	1,900	380	12,450	2,346	4,900	872

Industries related to the fisheries of Georgia, 1930

WHOLESALE AND MANUFACTURING

Operating Units, Salaries, and Wages

Item	Camden County	Chatham County	Glynn County	Liberty County	McIntosh County	Total
Establishments	4	13	6	3	3	29
Persons engaged:						
Proprietors	2	11	6	3	3	25
Salaried employees	4	20	2	1		27
Wage earners—						
Average for season	212	292	336	33	217	1,090
Average for year	92	198	74	9	34	407
Paid to salaried employees	$5,000	$61,040	$6,700	$900	$1,901	$75,541
Paid to wage earners	40,850	72,611	40,639	4,753	19,051	177,904
Total salaries and wages	45,850	133,651	47,339	5,653	20,952	253,445

Products Manufactured

Item	Quantity	Value
Shrimp, canned ... standard cases	75,744	$437,741
Oysters, canned ... do	4,293	19,747
Miscellaneous [1]	(2)	172,180
Total		629,668

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[1] Includes cooked peeled shrimp, crab meat, canned clam chowder, canned terrapin soup and meat, menhaden products; and fresh-shucked oysters.

[2] Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore they can not be correlated directly with the catch within the State.

FLORIDA

Fisheries of Florida, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines		Gill nets			
	Menhaden	Other	Common	Long	Anchor	Drift	Run-around	Stake
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:								
On vessels	226	20						
On boats and shore—								
Regular	48		831	297	21	206	2, 141	
Casual			32			60	24	2
Total	274	20	863	297	21	266	2, 165	2
Vessels:								
Motor—								
11 to 20 tons	2	1						
31 to 40 tons	2							
41 to 50 tons	1	1						
51 to 60 tons	1							
61 to 70 tons	1							
81 to 90 tons	1							
151 to 160 tons	1							
Total	9	2						
Net tonnage	510	54						
Boats:								
Motor	8		142	104	7	71	962	
Other			124	146		138	1, 738	2
Accessory boats	19	2						
Apparatus:								
Number	17	2	173	80	42	212	2, 213	2
Length, yards	4, 960	600	64, 220	64, 200				
Square yards					25, 200	330, 450	2, 812, 854	1, 080

Item	Trammel nets	Lines				Pound nets	Fyke nets	Dip nets	
		Hand	Troll	Trot, with baits or snoods	Trot, with hooks			Common	Drop
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:									
On vessels		573							
On boats and shore—									
Regular	222	625	871	8	233	56	50	44	
Casual		383	86		8			18	31
Total	222	1, 581	957	8	241	56	50	62	31
Vessels:									
Motor—									
5 to 10 tons		12							
11 to 20 tons		17							
21 to 30 tons		4							
31 to 40 tons		2							
41 to 50 tons		8							
51 to 60 tons		6							
61 to 70 tons		12							
71 to 80 tons		3							
91 to 100 tons		1							
101 to 110 tons		1							
Total		66							
Net tonnage		2, 385							
Sail—									
51 to 60 tons		1							
61 to 70 tons		3							
131 to 140 tons		1							
141 to 150 tons		1							
Total		6							
Net tonnage		527							
Total vessels		72							
Total net tonnage		2, 912							
Boats:									
Motor	110	303	552	6	17	21	13	30	15
Other	120	380	4	2	218	24	37	42	
Apparatus:									
Number	180	1, 579	1, 309	8	241	52	2, 950	62	31
Square yards	129, 568								
Hooks, baits, or snoods		2, 809	1, 814	1, 700	106, 740				

Fisheries of Florida, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Cast nets	Otter trawls, shrimp	Wire baskets	Pots			Spears	Dredges clam
				Crab	Eel	Sea crawfish		
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:								
On vessels		51						
On boats and shore—								
Regular		703	37	17	2	89	7	12
Casual	44	10	8	2			19	
Total	44	764	45	19	2	89	26	12
Vessels:								
Motor—								
5 to 10 tons		11						
11 to 20 tons		11						
Total		22						
Net tonnage		236						
Boats:								
Motor		305		13	2	68		
Other	19		45	12		29		
Apparatus:								
Number	44	327	520	1,383	90	2,533	26	1
Yards at mouth		5,689						

Item	Dredges, scallop	Tongs	Forks	Hooks		Diving outfits	By hand	Total, exclusive of duplication
				Sea crawfish	Sponge			
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:								
On vessels								867
On boats and shore—								
Regular	3	389	46	50	334	412	39	6,176
Casual		31	12				96	737
Total	3	420	58	50	334	412	135	7,780
Vessels:								
Motor—								
5 to 10 tons								23
11 to 20 tons								30
21 to 30 tons								4
31 to 40 tons								4
41 to 50 tons								10
51 to 60 tons								7
61 to 70 tons								13
71 to 80 tons								3
81 to 90 tons								1
91 to 100 tons								1
101 to 110 tons								1
151 to 160 tons								1
Total								98
Net tonnage								3,174
Sail—								
51 to 60 tons								1
61 to 70 tons								3
131 to 140 tons								1
141 to 150 tons								1
Total								6
Net tonnage								527
Total vessels								104
Total net tonnage								3,701
Boats:								
Motor	1	131	3	50		55		2,332
Other		176	20	25	283		32	3,220
Accessory boats								21
Apparatus:								
Number	2	420	58	2,000	283	55		
Yards at mouth	2							

Fisheries of Florida, 1930—Continued

CATCH: By GEAR

Species	Purse seines				Haul seines			
	Menhaden		Other		Common		Long	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	-------	-------	-------	-------	-------	-------	362, 800	$5, 442
Black bass	-------	-------	-------	-------	15, 899	$1, 490	193, 308	19, 174
Bluefish	-------	-------	-------	-------	251, 204	7, 054	-------	-------
Blue runner or hardtail	-------	-------	-------	-------	59, 071	720	-------	-------
Bonito	-------	-------	-------	-------	1, 190	24	-------	-------
Catfish and bullheads	-------	-------	-------	-------	396, 056	16, 874	2, 902, 291	124, 824
Cigarfish	-------	-------	-------	-------	58, 412	1, 752	-------	-------
Crappie	-------	-------	-------	-------	3, 674	239	653, 670	26, 321
Crevalle	-------	-------	-------	-------	14, 274	271	-------	-------
Croaker	-------	-------	-------	-------	14, 685	278	-------	-------
Drum:								
Black	-------	-------	-------	-------	5, 627	139	-------	-------
Red or redfish	-------	-------	-------	-------	149, 974	4, 732	603	30
Flounders	-------	-------	-------	-------	48, 848	2, 044	-------	-------
Hickory shad	-------	-------	-------	-------	-------	-------	28, 428	852
Kingfish or "king mackerel"	-------	-------	-------	-------	5, 479	144	-------	-------
King whiting or "kingfish"	-------	-------	-------	-------	29, 053	966	-------	-------
Menhaden	39, 863, 848	$169,956	-------	-------	50, 322	1, 490	-------	-------
Mojarro	-------	-------	-------	-------	44, 275	1, 208	-------	-------
Mullet	-------	-------	50, 000	$1, 500	3, 843, 223	119, 396	-------	-------
Permit	-------	-------	-------	-------	11, 450	325	-------	-------
Pigfish	-------	-------	-------	-------	18, 480	545	-------	-------
Pinfish or sailors choice	-------	-------	-------	-------	200	6	-------	-------
Pompano	-------	-------	-------	-------	66, 690	11, 528	-------	-------
Sea bass	-------	-------	-------	-------	1, 320	36	-------	-------
Shad	-------	-------	-------	-------	295, 000	35, 400	143, 647	17, 316
Sheepshead	-------	-------	-------	-------	147, 032	4, 450	-------	-------
Snapper, mangrove	-------	-------	-------	-------	21, 549	617	-------	-------
Snook or sergeantfish	-------	-------	-------	-------	240, 644	6, 673	-------	-------
Spadefish	-------	-------	-------	-------	48, 528	1, 444	-------	-------
Spanish mackerel	-------	-------	-------	-------	1, 068, 972	44, 318	-------	-------
Spot	-------	-------	-------	-------	9, 530	246	-------	-------
Squeteagues or "sea trout":								
Gray	-------	-------	-------	-------	13, 133	700	-------	-------
Spotted	-------	-------	-------	-------	415, 838	27, 837	-------	-------
Sunfish	-------	-------	-------	-------	7, 117	214	342, 392	10, 290
Tenpounder	-------	-------	-------	-------	158, 689	4, 595	-------	-------
Yellowtail	-------	-------	-------	-------	400	20	-------	-------
Turtles, soft-shell	-------	-------	-------	-------	-------	-------	11, 578	235
Total	39. 863, 848	169, 956	50, 000	1, 500	7, 515, 838	297, 775	4, 638, 717	204, 484

Species	Gill nets							
	Anchor		Drift		Runaround		Stake	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Amberjack	-------	-------	-------	-------	220	$11	-------	-------
Bluefish	-------	-------	9, 732	$708	683, 954	44, 188	-------	-------
Blue runner or hardtail	-------	-------	-------	-------	77, 834	1, 510	-------	-------
Catfish and bullheads	-------	-------	-------	-------	58, 414	2, 976	-------	-------
Crevalle	-------	-------	-------	-------	74, 862	2, 134	-------	-------
Croaker	-------	-------	-------	-------	16, 835	412	-------	-------
Drum:								
Black	-------	-------	-------	-------	27, 017	700	-------	-------
Red or redfish	-------	-------	1, 000	50	630, 191	20, 720	-------	-------
Eels	-------	-------	-------	-------	600	40	-------	-------
Flounders	-------	-------	-------	-------	42, 844	2, 144	-------	-------
Groupers	-------	-------	-------	-------	5, 000	400	-------	-------
Hickory shad	-------	-------	1, 188	36	-------	-------	-------	-------
Kingfish or "king mackerel"	-------	-------	-------	-------	29, 480	2, 340	-------	-------
King whiting or "kingfish"	-------	-------	30, 000	1, 200	37, 000	1, 197	-------	-------
Mojarro	-------	-------	-------	-------	35, 000	1, 200	-------	-------
Mullet	-------	-------	98, 111	4, 853	17, 225, 111	518, 878	-------	-------
Muttonfish	-------	-------	-------	-------	44, 035	2, 703	-------	-------
Permit	-------	-------	-------	-------	3, 432	124	-------	-------
Pigfish	-------	-------	-------	-------	43, 675	1, 056	-------	-------
Pinfish or sailors choice	-------	-------	-------	-------	77, 410	1, 498	-------	-------
Pompano	-------	-------	-------	-------	192, 894	40, 369	-------	-------
Shad	-------	-------	439, 384	75, 963	-------	-------	1, 701	$335
Sharks	2, 187, 500	$3, 500	-------	-------	-------	-------	-------	-------
Sheepshead	-------	-------	-------	-------	502, 007	16, 695	-------	-------

Fisheries of Florida, 1930—Continued

CATCH: BY GEAR—Continued

Species	Gill nets							
	Anchor		Drift		Runaround		Stake	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Snapper:								
Mangrove	----	----	----	----	59, 931	$2, 414	----	----
Red	----	----	----	----	2, 094	209	----	----
Snook or sergeantfish	----	----	----	----	104, 485	3, 792	----	----
Spadefish	----	----	----	----	33	1	----	----
Spanish mackerel	----	----	9, 892	$540	4, 913, 459	240, 510	----	----
Spot	----	----	----	----	133, 026	3, 766	----	----
Squeteagues or "sea trout":								
Gray	----	----	1, 200	120	510, 458	36, 870	----	----
Spotted	----	----	----	----	1, 503, 508	105, 300	----	----
Sturgeon	----	----	3, 191	310	4, 207	765	----	----
Tenpounder	----	----	----	----	22, 672	618	----	----
Yellowtail	----	----	----	----	400	16	----	----
Crabs, hard	----	----	----	----	600	210	----	----
Turtles, green	21, 550	$1, 078	----	----	----	----	----	----
Total	2, 209, 050	4, 578	593, 698	83, 780	27, 062, 688	1, 055, 766	1, 701	$335

Species	Trammel nets		Lines					
			Hand		Troll		Trot, with baits or snoods	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Amberjack	----	----	21, 000	$656	----	----	----	----
Bluefish	2, 210	$84	7, 200	720	137, 200	$10, 944	----	----
Blue runner or hardtail	----	----	2, 200	40	----	----	----	----
Cabio or crab eater	----	----	7, 761	344	----	----	----	----
Cero	----	----	----	----	9, 950	480	----	----
Crevalle	----	----	1, 000	50	220	4	----	----
Dolphin	----	----	5, 000	500	----	----	----	----
Drum:								
Black	----	----	1, 980	54	----	----	----	----
Red or redfish	15, 598	550	206, 326	7, 376	----	----	----	----
Flounders	2, 145	135	700	28	----	----	----	----
Groupers	----	----	3, 059, 582	91, 788	----	----	----	----
Grunts	----	----	21, 883	657	----	----	----	----
Hogfish	----	----	2, 000	100	----	----	----	----
Jewfish	----	----	26, 050	782	----	----	----	----
Kingfish or "king mackerel"	----	----	----	----	3, 592, 500	169, 336	----	----
King whiting or "kingfish"	880	24	3, 000	120	----	----	----	----
Mullet	775, 342	23, 261	----	----	----	----	----	----
Muttonfish	----	----	176, 004	12, 443	5, 000	300	----	----
Pinfish or sailors choice	----	----	440	20	----	----	----	----
Pompano	307, 639	58, 704	----	----	----	----	----	----
Porgies	----	----	54, 233	1, 627	----	----	----	----
Porkfish	----	----	600	36	----	----	----	----
Sea bass	----	----	47, 320	3, 170	----	----	----	----
Sheepshead	13, 909	574	206, 265	7, 943	----	----	----	----
Snapper:								
Mangrove	----	----	39, 460	1, 784	----	----	----	----
Red	----	----	5, 033, 608	426, 931	----	----	----	----
Snook or sergeantfish	----	----	22, 980	810	----	----	----	----
Spanish mackerel	----	----	33, 695	1, 820	48, 997	3, 430	----	----
Squeteagues or "sea trout":								
Gray	----	----	72, 709	5, 515	----	----	----	----
Spotted	77, 971	5, 747	674, 937	55, 060	----	----	----	----
Tripletail	----	----	4, 869	168	----	----	----	----
Turbot	----	----	900	54	----	----	----	----
Yellowtail	----	----	88, 670	6, 635	----	----	----	----
Crabs, hard	----	----	----	----	----	----	68, 200	$2, 816
Total	1, 195, 694	89, 079	9, 822, 372	627, 231	3, 793, 867	184, 494	68, 200	2, 816

Fisheries of Florida, 1930—Continued

CATCH: BY GEAR—Continued

Species	Lines—Trot, with hooks		Pound nets		Fyke nets		Dip nets—Common	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			2, 932	$44				
Black bass					123, 879	$10, 951		
Bluefish			62, 047	2, 256				
Blue runner or hardtail			615, 140	11, 730				
Cabio or crab eater			2, 546	93				
Catfish and bullheads	608, 900	$29, 227	235, 640	11, 445	32, 400	1, 428		
Crappie			25, 340	1, 520	216, 292	6, 309		
Drum, red or redfish			18, 892	515				
Groupers			220	6				
Kingfish or "king mackerel"			58, 406	3, 186				
Menhaden			500, 000	5, 000				
Mullet			1, 019	30				
Pompano			6, 130	1, 115				
Porgies			800	16				
Sheepshead			2, 920	106				
Snapper, mangrove			880	32				
Spanish mackerel			65, 202	3, 557				
Squeteagues or "sea trout": Spotted			118, 312	8, 597				
Sturgeon			1, 012	184				
Sunfish			36, 480	1, 094	48, 194	1, 445		
Sea crawfish or spiny lobster							140, 333	$11, 227
Total	608, 900	29, 227	1, 753, 918	50, 526	420, 765	20, 133	140, 333	11, 227

Species	Dip nets—Drop		Cast nets		Otter trawls, shrimp		Wire baskets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads							112, 530	$6, 138
Croaker					1, 500	$45		
Drum, red or redfish					1, 300	60		
Eels							543	16
Flounders					4, 700	199		
King whiting or "kingfish"					53, 200	1, 658		
Mojarro			2, 000	$100				
Mullet			29, 000	1, 550				
Squeteagues or "sea trout": Gray					1, 700	150		
Crabs, hard	4, 095	$117						
Sea crawfish or spiny lobster	10, 000	1, 000						
Shrimp					16, 848, 576	635, 506		
Total	14, 095	1, 117	31, 000	1, 650	16, 910, 976	637, 618	113, 073	6, 154

Species	Pots						Spears	
	Crab		Eel		Sea crawfish			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels			16, 000	$800				
Flounders							20, 374	$1, 702
Crabs:								
Hard	38, 400	$960						
Stone	190, 050	12, 670			114, 500	$13, 660		
Sea crawfish or spiny lobster					137, 976	14, 504		
Total	228, 450	13, 630	16, 000	800	252, 476	28, 164	20, 374	1, 702

Species	Dredges				Tongs		Forks	
	Clam		Scallop					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams:								
Hard, public	565, 528	$35, 346			21, 000	$1, 050	97, 928	$7, 630
Hard, private					21, 000	1, 050		
Oysters:								
Market, public, spring					723, 697	46, 342		
Market, public, fall					808, 603	75, 739		
Market, private, spring					11, 237	1, 213		
Market, private, fall					14, 478	1, 563		
Scallops, bay			3, 975	$188				
Total	565, 528	35, 346	3, 975	188	1, 600, 015	126, 957	97, 928	7, 630

Fisheries of Florida, 1930—Continued

CATCH: BY GEAR—Continued

Species	Hooks				Diving outfits		By hand	
	Sea crawfish		Sponge					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, stone	3, 000	$300						
Clams:								
Hard, public							3, 432	$514
Hard, private							2, 688	840
Conches			20, 000	$200				
Oysters:								
Market, public, spring							66, 471	5, 126
Market, public, fall							69, 639	5, 365
Market, private, spring							24, 308	1, 850
Market, private, fall							64, 820	5, 000
Scallops, bay							17, 892	1, 951
Terrapin, diamond-back							406	83
Sponges:								
Grass			76, 718	24, 572	6, 200	$1, 984		
Sheepswool			98, 513	182, 458	271, 952	676, 241		
Velvet			682	409				
Wire			490	110	3, 291	1, 931		
Yellow			39, 015	12, 709	52, 140	30, 246		
Total	3, 000	300	235, 418	220, 458	333, 583	710, 402	249, 656	20, 72

OPERATING UNITS: BY COUNTIES

Item	Bay	Brevard	Broward	Charlotte	Citrus	Clay	Collier	Dade
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:								
On vessels	135							20
On boats and shore—								
Regular	185	156	5	331	132	49	92	360
Casual	27	28	50	46	26		25	25
Total	347	184	55	377	158	49	117	405
Vessels:								
Motor—								
5 to 10 tons	5							
11 to 20 tons	5							1
21 to 30 tons	2							
41 to 50 tons	1							1
61 to 70 tons	3							
Total	16							2
Net tonnage	391							54
Boats:								
Motor	48	92	29	168	47	14	45	225
Other	67	109		324	145	31	61	60
Accessory boats								2
Apparatus:								
Purse seines—								
Other								2
Length, yards								600
Haul seines—								
Common	14			19		14	4	
Length, yards	5, 400			7, 200		11, 600	1, 100	
Gill nets—								
Runaround	16	136		329	85		52	80
Square yards	9, 900	126, 450		374, 000	49, 732		50, 230	200, 000
Trammel nets	3			25			8	
Square yards	1, 650			24, 195			16, 000	
Lines—								
Hand	185	6	20	64	32		27	55
Hooks	359	12	20	64	32		27	55
Troll		35	50	81	2			230
Hooks		35	60	81	2			460
Trot, with hooks		2				44		
Hooks		600				20, 400		
Dip nets, drop								25
Otter trawls, shrimp	1	13						
Yards at mouth	10	260						
Pots—								
Crab		38						
Sea crawfish			240					2, 000
Spears	7							
Dredges, clam							1	
Tongs	62			4	38			
Forks							15	
Hooks, sea crawfish								2, 000

Fisheries of Florida, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Dixie	Duval	Escambia	Franklin	Glades	Gulf	Hendry	Hillsborough
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:								
On vessels		10	329	26		60		15
On boats and shore—								
Regular	20	197	174	497	122	123	5	84
Casual	8	50	6	14		6		8
Total	28	257	509	537	122	189	5	107
Vessels:								
Motor—								
5 to 10 tons		1		6				
11 to 20 tons		1	4	1				3
21 to 30 tons			1					
31 to 40 tons						1		
41 to 50 tons			7					
51 to 60 tons			6					
61 to 70 tons			9			1		
71 to 80 tons			3					
91 to 100 tons			1					
101 to 110 tons			1					
Total		2	32	7		2		3
Net tonnage		18	1, 744	51		96		36
Sail—								
51 to 60 tons			1					
61 to 70 tons			3					
131 to 140 tons			1					
141 to 150 tons			1					
Total			6					
Net tonnage			527					
Total vessels		2	38	7		2		3
Total net tonnage		18	2, 271	51		96		36
Boats:								
Motor	5	81	53	181	41	21	2	34
Other	28	121	34	102	44	8	3	67
Apparatus:								
Purse seines—								
Menhaden						10		
Length, yards						2, 960		
Haul seines—								
Common		12	5	10		8		
Length, yards		3, 000	1, 770	3, 750		3, 200		
Long					19		1	
Length, yards					18, 000		900	
Gill nets—								
Drift		143		6				
Square yards		200, 200		6, 000				
Runaround	15	17	12	33		9		50
Square yards	5, 375	23, 800	72, 000	21, 090		24, 000		37, 085
Trammel nets			26					
Square yards			13, 520					
Lines—								
Hand	28	35	393	57		6		42
Hooks	28	70	1, 115	114		6		63
Trot, with baits or snoods		6						
Baits or snoods		900						
Trot, with hooks		38		20	1			
Hooks		12, 400		1, 800	500			
Pound nets						3		
Fyke nets					1, 700	100		
Dip nets, drop			6					
Cast nets		25						
Otter trawls, shrimp		16	4	65				
Yards at mouth		320	48	771				
Wire baskets				520				
Spears				9				
Dredges, scallop				2				
Yards at mouth				2				
Tongs			29	196				

Fisheries of Florida, 1930—Continued

OPERATING UNITS: By counties—Continued

Item	Indian River	Jefferson	Lee	Levy	Manatee	Martin	Monroe	Nassau
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Numbe*
On vessels							5	17
On boats and shore—								
Regular	54	11	88	153	119	30	493	12
Casual		8	42	28	8	10	18	2
Total	54	19	130	181	127	40	516	32
Vessels:								
Motor—								
5 to 10 tons							1	
11 to 20 tons								
31 to 40 tons								
41 to 50 tons								
51 to 60 tons								
81 to 90 tons								
151 to 160 tons								
Total							1	1
Net tonnage							6	47
Boats:								
Motor	30	3	56	68	56	20	146	3
Other	29	18	113	149	94	5	333	4
Accessory boats								1
Apparatus:								
Purse seines—								
Menhaden								
Length, yards								2, 00
Haul seines—								
Common			6		7			
Length, yards			2, 100		1, 850			
Gill nets—								
Anchor							42	
Square yards							25, 200	
Drift								1
Square yards								2, 25
Runaround	49	11	80	90	100	30	89	
Square yards	47, 700	6, 425	58, 190	36, 365	126, 200	36, 000	166, 150	1, 80
Stake								
Square yards								1, 08
Trammel nets			4	12	7			
Square yards			5, 000	2, 025	4, 640			
Lines—								
Hand	5	18	48	49	26		68	3
Hooks	10	18	48	49	26		68	6
Troll	30		24	20	30	20	102	
Hooks	30		24	20	30	40	102	
Pound nets				12				
Dip nets, common							62	
Otter trawls, shrimp								4
Yards at mouth								88
Pots—								
Crab					60			
Sea crawfish							253	
Tongs				33				
Forks					1			
Hooks, sponge							232	

Item	Okaloosa	Okeechobee	Palm Beach	Pasco	Pinellas	Putnam	St. Johns	St. Lucie
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Numbe*
On vessels					62		20	
On boats and shore—								
Regular	120	37	250	28	805	244	210	18
Casual			18		119			
Total	120	37	268	28	986	244	230	18
Vessels:								
Motor—								
5 to 10 tons					2		4	
11 to 20 tons					4		4	
21 to 30 tons					1			
31 to 40 tons					2			
Total					9		8	
Net tonnage					172		99	1

Fisheries of Florida, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Okaloosa	Okeechobee	Palm Beach	Pasco	Pinellas	Putnam	St. Johns	St. Lucie
Boats:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Motor	29	8	130	14	167	80	77	92
Other	28	27	25	28	294	151	19	40
Apparatus:								
Haul seines—								
Common	14				10			
Length, yards	5,600				4,150			
Long		8				50		
Length, yards		6,400				37,700		
Gill nets—								
Drift					14	38	1	
Square yards					8,400	113,000	600	
Runaround	2		84	28	260		6	126
Square yards	712		168,000	17,460	451,760		3,000	207,940
Trammel nets	32				3			
Square yards	17,088				2,250			
Lines—								
Hand	56				181		10	
Hooks	112				283		20	
Troll			210		86			168
Hooks			420		121			168
Trot, with hooks		2				36		
Hooks		600				11,640		
Pound nets						37		
Fyke nets		1,030				120		
Cast nets			15					
Otter trawls, shrimp							85	51
Yards at mouth							1,700	740
Pots—								
Crab					1,285			
Eel						90		
Sea crawfish							40	
Spears	2							
Tongs	2							6
Forks					12		15	
Hooks, sponge					51			
Diving outfits					55			

Item	Santa Rosa	Sarasota	Seminole	Taylor	Volusia	Wakulla	Walton
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels					4		
On boats and shore—							
Regular	12	204	98	66	140	167	10
Casual	6	35		45	23	35	
Total	18	239	98	111	167	202	10
Vessels:							
Motor—							
5 to 10 tons					1		
11 to 20 tons					1		
Total					2		
Net tonnage					16		
Boats:							
Motor	6	101		16	64	42	3
Other	5	207	98	111	65	131	5
Apparatus:							
Haul seines—							
Common		24	20		2	4	
Length, yards		8,400	3,600		300	1,200	
Long					2		
Length, yards					1,200		
Gill nets—							
Runaround		220		62	23	117	
Square yards		390,740		23,450	17,250	60,050	
Trammel nets	5	10				40	5
Square yards	2,200	25,500				14,000	1,500

Fisheries of Florida, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Santa Rosa	Sara-sota	Semi-nole	Taylor	Volusia	Wa-kulla	Walto
Apparatus—Continued.							
Lines—	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Numbe*
Hand		41		85	12		
Hooks		41		85	24		
Troll		221					
Hooks		221					
Trot, with baits or snoods					2		
Baits or snoods					800		
Trot, with hooks			98				
Hooks			58, 800				
Cast nets					4		
Otter trawls, shrimp					48		
Yards at mouth					960		
Spears	8						
Tongs	8				30	12	
Forks					15		

CATCH: BY COUNTIES

Species	Bay		Brevard		Broward		Charlotte	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bluefish	143, 902	$2, 904	83, 230	$6, 363	2, 000	$200	93, 025	$5, 19
Blue runner or hardtail	4, 950	90					18, 535	34
Bonito							990	1
Cabio or crab eater							6, 545	29
Catfish and bullheads			32, 000	1, 280				
Cigarfish	30, 000	900						
Crevalle			4, 200	126	1, 000	50	11, 880	22
Croaker			1, 500	45			5, 885	12
Dolphin					5, 000	500		
Drum:								
Black			7, 515	220			440	1
Red or redfish	5, 230	167	43, 585	2, 043			171, 590	6, 91
Flounders	3, 850	252	1, 700	44			32, 230	1, 17
Groupers	711, 571	21, 350			10, 000	300	5, 720	17
Grunts							4, 300	12
Jewfish							2, 600	7
Kingfish or "king mackerel"			1, 800	90	140, 000	8, 100	37, 114	1, 70
King whiting or "kingfish"			10, 100	354			7, 040	19
Menhaden	25, 000	750						
Mojarro							44, 275	1, 20
Mullet	544, 328	18, 078	1, 379, 870	35, 075			3, 762, 776	112, 88
Muttonfish					5, 000	750	24, 804	1, 05
Permit							12, 352	37
Pigfish			4, 189	84			16, 880	50
Pinfish or sailors choice			52, 270	895				
Pompano	1, 354	246	13, 256	2, 816			128, 587	23, 14
Porgies	8, 800	264						
Sheepshead	5, 665	172	69, 698	2, 172			158, 115	5, 88
Snapper:								
Mangrove			1, 500	75			37, 939	1, 14
Red	870, 940	69, 678						
Snook or sergeantfish			4, 000	160			94, 644	2, 58
Spadefish							46, 306	1, 38
Spanish mackerel	533, 407	20, 350	26, 000	1, 820	500	75	458, 062	20, 82
Spot			62, 808	1, 592			5, 830	15
Squeteagues or "sea trout":								
Gray			332, 619	22, 787				
Spotted	62, 346	4, 374					613, 888	43, 04
Tenpounder	90, 000	2, 700						
Tripletail							1, 100	4
Yellowtail							6, 600	31
Crabs, hard			39, 000	1, 170				
Sea crawfish or spiny lobster					15, 000	3, 000		
Shrimp	10, 000	800	405, 000	16, 200				
Oysters:								
Market, public, spring	70, 932	5, 994					4, 250	37
Market, public, fall	92, 582	8, 169					7, 140	52
Total	3, 214, 857	157, 238	2, 575, 840	95, 411	178, 500	12, 975	5, 821, 442	232, 02

Fisheries of Florida, 1930—Continued

CATCH: By counties—Continued

Species	Citrus		Clay		Collier		Dade	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
mberjack					--------	--------	2,500	$100
lack bass	--------	--------	15,899	$1,490	--------	--------	--------	--------
luefish	7,855	$286	--------	--------	1,925	$88	15,000	1,500
lue runner or hardtail	--------	--------	--------	--------	15,675	285	7,000	140
atfish and bullheads	--------	--------	444,708	19,397	--------	--------	--------	--------
ero	--------	--------	--------	--------	--------	--------	5,000	300
rappie	--------	--------	3,674	239	--------	--------	--------	--------
revalle	--------	--------	--------	--------	1,650	30	5,000	150
rum:								
Black	--------	--------	--------	--------	440	12	--------	--------
Red or redfish	54,682	1,491	--------	--------	90,640	2,472	7,000	280
lounders	682	37	--------	--------	880	38	--------	--------
roupers	2,250	68	--------	--------	3,500	105	30,000	900
runts	--------	--------	--------	--------	2,500	75	7,000	210
ogfish	--------	--------	--------	--------	--------	--------	2,000	100
wfish	--------	--------	--------	--------	400	12	8,000	240
ingfish or "king mackerel"	1,896	103	--------	--------	--------	--------	900,000	40,500
ing whiting or "kingfish"	--------	--------	--------	--------	1,650	30	--------	--------
ullet	1,150,695	34,521	--------	--------	771,344	15,427	450,000	9,500
uttonfish	--------	--------	--------	--------	--------	--------	100,000	7,000
rmit	--------	--------	--------	--------	880	24	--------	--------
gfish	660	18	--------	--------	2,300	69	--------	--------
ompano	198	36	--------	--------	75,930	15,186	8,000	1,600
orgies	--------	--------	--------	--------	--------	--------	8,000	240
eepshead	13,676	505	--------	--------	106,132	3,037	2,000	80
apper:								
Mangrove	12,633	345	--------	--------	--------	--------	3,000	180
Red	--------	--------	--------	--------	--------	--------	14,000	1,120
ook or sergeantfish	--------	--------	--------	--------	50,283	1,371	--------	--------
anish mackerel	1,320	72	--------	--------	159,049	7,230	900,000	45,000
ot	--------	--------	--------	--------	440	8	--------	--------
ueteagues or "sea trout":								
Gray	--------	--------	--------	--------	--------	--------	24,000	2,400
Spotted	131,416	10,247	--------	--------	79,838	4,860	--------	--------
nfish	--------	--------	7,117	214	--------	--------	--------	--------
npounder	22,491	613	--------	--------	--------	--------	--------	--------
ipletail	--------	--------	--------	--------	440	12	--------	--------
llowtail	--------	--------	--------	--------	4,900	245	40,000	3,200
abs, stone	--------	--------	--------	--------	--------	--------	103,000	12,800
a crawfish or spiny lobster	--------	--------	--------	--------	--------	--------	90,000	9,000
ams, hard, public	--------	--------	--------	--------	645,528	40,346	--------	--------
ysters:								
Market, public, spring	18,923	1,270	--------	--------	--------	--------	--------	--------
Market, public, fall	57,410	3,853	--------	--------	--------	--------	--------	--------
Total	1,476,787	53,465	471,398	21,340	2,016,324	90,962	2,730,500	136,540

Species	Dixie		Duval		Escambia		Franklin	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
berjack	--------	--------	220	$11	--------	--------	1,400	$42
uefish	2,640	$96	4,500	450	46,215	$1,337	63,685	2,252
ue runner or hardtail	--------	--------	--------	--------	25,931	236	2,200	40
bio or crab eater	--------	--------	--------	--------	314	13	--------	--------
fish and bullheads	--------	--------	69,000	3,450	--------	--------	218,592	11,086
valle	--------	--------	233	10	--------	--------	--------	--------
aker	--------	--------	3,000	90	2,200	40	--------	--------
um:								
Black	--------	--------	2,500	75	2,107	57	440	12
Red or redfish	5,280	192	3,000	190	6,633	181	29,585	813
s	--------	--------	--------	--------	--------	--------	543	16
unders	1,650	90	1,296	65	1,556	113	10,345	652
upers	--------	--------	--------	--------	1,312,024	39,353	299,226	8,977
fish	--------	--------	--------	--------	2,095	63	1,800	54
gfish or "king mackerel"	--------	--------	--------	--------	2,439	44	--------	--------
g whiting or "kingfish"	--------	--------	48,700	1,948	423	8	3,300	90
nhaden	--------	--------	--------	--------	--------	--------	7,000	210
llet	132,410	5,296	97,833	4,892	363,592	10,908	960,050	28,801
ish	500	15	--------	--------	660	12	--------	--------
mpano	2,970	540	1,133	226	10,266	1,867	1,606	292
gies	--------	--------	--------	--------	9,313	282	6,000	180
bass	--------	--------	44,000	3,080	--------	--------	1,320	36

Fisheries of Florida, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Dixie		Duval		Escambia		Franklin	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Valu
Shad			262,875	$48,817				
Sheepshead	5,060	$230	1,000	80	4,423	$201	2,183	$
Snapper, red			10,936	1,093	2,902,878	256,221	374,761	30, 0
Snook or sergeantfish			1,360	136				
Spadefish					62	1	220	
Spanish mackerel	3,740	204	3,000	300	315,941	9,479	45,236	1, 6
Spot	220	6	12,960	390	80	1	440	
Squeteagues or "sea trout":								
Gray			6,200	520	66	1		
Spotted	38,108	2,771	26,809	2,680	9,692	705	74,380	5, 4
Sturgeon							3,041	2
Tenpounder							17,359	4
Tripletail							2,009	
Crabs, hard			48,400	2,420	4,095	117		
Shrimp			1,145,714	45,828	14,718	1,472	1,564,261	61, 8
Oysters:								
Market, public, spring					62,492	5,514	523,637	20, 3
Market, public, fall					72,830	6,435	515,577	51, 2
Scallops, bay							3,975	
Total	192,578	9,440	1,794,669	116,751	5,173,045	334,661	4,734,171	234,

Species	Glades		Gulf		Hendry		Hillsborough	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Valu
Black bass	155,935	$14,035			5,400	$432		
Bluefish			77,000	$2,800			220	
Blue runner or hardtail			300,000	6,000				
Catfish and bullheads	1,191,330	47,653			84,000	3,360		
Crappie	499,410	14,802			5,100	153		
Crevalle							932	
Croaker			880	8				
Drum, red or redfish			7,700	280			36,803	1,
Flounders			3,850	185			17,622	
Groupers							209,185	6,
Grunts							37	
Kingfish or "king mackerel"			1,100	50				
Menhaden			6,123,440	29,076				
Mullet			411,350	16,454			542,605	17,
Pompano			21,102	2,891			3,175	
Porgies							1,200	
Sheepshead			2,750	100			21,233	
Snapper:								
Mangrove							660	
Red							225,123	18,
Snook or sergeantfish							24,585	
Spadefish							33	
Spanish mackerel			248,094	13,532			1,760	
Spot			220	6			134	
Squeteagues or "sea trout":								
Gray							2,233	
Spotted			34,585	2,563			136,373	10,
Sunfish	103,652	3,109			8,200	246		
Tenpounder			12,000	240			181	
Total	1,950,327	79,599	7,244,071	74,185	102,700	4,191	1,224,094	56,

Fisheries of Florida, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Indian River		Jefferson		Lee		Levy	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
luefish	6,700	$804			4,765	$217	89,133	$3,245
lue runner or hardtail					990	18	320,552	5,828
abio or crab eater							2,546	93
revalle	9,800	294						
roaker	3,000	68			1,650	30		
rum:								
Black	3,600	108					2,640	72
Red or redfish	6,300	287	10,175	$370	49,665	1,355	76,667	2,091
els	600	40						
lounders					2,035	92	2,970	162
roupers							8,710	261
ingfish or "king mackerel"	4,000	240			26,769	1,217	208,103	11,351
ing whiting or "kingfish"	16,500	570			440	8		
Iullet	300,669	9,020	171,050	6,862	756,349	25,744	892,958	26,788
Iuttonfish	18,000	720						
igfish	2,800	84			1,200	36		
infish or sailors choice	11,600	232						
ompano	18,233	4,257			17,600	3,520	19,957	3,647
orgies							1,050	21
ea bass							3,320	90
heepshead	7,300	292	4,840	188	64,361	1,996	40,979	1,540
napper, mangrove	12,400	739	990	36	2,600	96	2,930	112
nook or sergeantfish	27,000	1,080			20,582	561		
panish mackerel	22,997	1,610			89,476	4,067	79,294	4,411
pot	42,000	1,260	220	6			704	13
queteagues or "sea trout":								
Gray	83,695	8,370						
Spotted			39,138	2,846	138,838	7,819	314,947	23,794
turgeon							5,219	949
ellowtail					1,720	64		
ysters:								
Market, public, spring					1,275	112	12,446	980
Market, public, fall					2,550	225	15,773	1,242
Total	597,194	30,075	226,413	10,308	1,182,865	47,177	2,100,898	86,690

Species	Manatee		Martin		Monroe		Nassau	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
luefish	16,207	$1,131	32,449	$4,543	16,720	$900	800	$80
lue runner or hardtail	2,090	38			11,789	214		
abio or crab eater	660	24						
ero					4,950	180		
revalle	990	18	15,000	600	1,980	36		
roaker	1,320	36	500	15			100	4
rum:								
Black	440	12	500	15	440	12		
Red or redfish	135,918	4,952	2,000	80	22,770	633	100	3
lounders	990	54			550	25	3,000	150
roupers	2,500	75			27,000	810		
runts	400	12			5,700	171		
wfish					8,800	264		
ingfish or "king mackerel"	5,720	312	59,585	2,979	852,340	31,012		
ing whiting or "kingfish"			600	24			20,250	610
Ienhaden							34,242,408	145,920
Iojarro			15,000	600				
Iullet	1,402,800	52,352	364,617	10,939	524,208	11,884		
Iuttonfish			24,035	1,923	46,200	3,636		
ermit	1,100	40						
igfish	1,000	40			600	18		
infish or sailors choice					440	20		
ompano	22,980	4,160	35,004	8,751	2,382	325		
orgies	800	24			1,500	45		
orkfish					600	36		
had							14,301	2,825
harks					2,187,500	3,500		
heepshead	64,790	2,407	7,530	452	21,450	691		
napper:								
Mangrove	1,760	64	5,000	300	16,500	900		
Red					27,000	2,160	7,000	490
nook or sergeantfish	65,112	1,887	3,000	180				
panish mackerel	209,981	11,562			1,136,503	42,255		
pot	440	12	8,000	320	880	32	200	8

Fisheries of Florida, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Manatee		Martin		Monroe		Nassau	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Squeteagues or "sea trout":								
Gray							2,500	$250
Spotted	184,859	$13,845	11,762	$1,176	46,156	$2,663	15,000	1,500
Sturgeon							150	34
Tripletail					1,320	36		
Turbot					900	54		
Yellowtail					36,250	2,850		
Crabs, stone	45,000	3,000			14,500	1,160		
Sea crawfish or spiny lobster					180,000	14,400		
Shrimp							3,229,533	129,179
Clams:								
Hard, public	9,600	1,200						
Hard, private							2,688	840
Conchs					20,000	200		
Oysters:								
Market, public, spring							64,224	4,954
Market, public, fall							64,820	5,000
Market, private, spring							24,308	1,850
Market, private, fall							64,820	5,000
Turtles, green					21,550	1,078		
Sponges:								
Grass					20,908	6,710		
Sheepswool					50,520	63,121		
Velvet					682	409		
Wire					490	110		
Yellow					29,814	7,372		
Total	2,177,457	97,257	584,582	32,897	5,341,892	199,922	37,756,202	298,697

Species	Okaloosa		Okeechobee		Palm Beach		Pasco	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Amberjack	100	$4						
Black bass			56,166	$4,493				
Bluefish	28,861	866			226,000	$18,300	1,760	$96
Blue runner or hardtail	18,400	184			10,000	200		
Bonito	200	6						
Catfish and bullheads			567,200	22,768				
Cigarfish	28,412	852						
Crappie			143,464	4,304				
Crevalle					10,000	300		
Croaker					2,000	60		
Drum:								
Black	200	6						
Red or redfish	6,344	302			1,000	50	20,350	55
Flounders	5,119	425						
Groupers	51,847	1,555			5,000	400		
Jewfish	700	21						
Kingfish or "king mackerel"	1,500	30			655,000	32,750		
King whiting or "kingfish"	500	10			3,000	90		
Menhaden	16,322	490						
Mojarro					2,000	100		
Mullet	236,703	7,101			14,000	700	500,752	15,02
Muttonfish					7,000	360		
Pompano	11,269	2,254			16,500	3,550		
Porgies	14,970	449						
Sheepshead	3,700	195			1,000	40	880	3
Snapper:								
Mangrove					1,500	75	7,150	26
Red	34,516	2,761						
Snook or sergeantfish					2,000	80		
Spadefish	400	8						
Spanish mackerel	160,574	4,817			650,000	39,000	4,950	22
Spot	900	18						
Squeteagues or "sea trout":								
Gray					1,500	120		
Spotted	23,542	1,727					17,586	1,27
Sunfish			47,375	1,421				
Tenpounder	32,180	965						
Oysters, market, public, fall	5,100	450						
Total	682,359	25,496	814,205	32,986	1,607,500	96,175	553,428	17,47

Fisheries of Florida, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Pinellas		Putnam		St. Johns		St. Lucie	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives			365, 732	$5, 486				
Amberjack	17, 000	$510						
Black bass			97, 286	10, 925				
Bluefish	109, 826	6, 463			4, 350	$435	25, 000	$2, 750
Blue runner or hardtail	243	4					5, 000	100
Cabio or crab eater	242	9						
Catfish and bullheads			1, 383, 401	66, 118				
Crappie			241, 128	14, 519				
Crevalle	1, 171	27					20, 000	400
Croaker							3, 000	60
Drum:								
Black	462	13					10, 000	200
Red or redfish	57, 022	1, 742	603	30	160	6	15, 000	300
Eels			16, 000	800				
Flounders	8, 754	392			4, 800	197		
Groupers	379, 742	11, 390						
Grunts	146	5						
Hickory shad			29, 616	888				
Jewfish	1, 655	50						
Kingfish or "king mackerel"	101, 268	5, 524			22, 000	1, 980	500, 000	25, 000
King whiting or "kingfish"					3, 250	97	10, 000	300
Mojarro							20, 000	600
Mullet	2, 127, 345	64, 893	5, 278	211	9, 500	475		
Pigfish	3, 410	93						
Pinfish or sailors choice					10, 000	300		
Pompano	27, 272	4, 969			3, 200	640	40, 000	8, 000
Porgies	2, 500	75						
Shad			306, 156	41, 692	1, 400	280		
Sheepshead	27, 683	1, 085			5, 540	322	30, 000	1, 200
Snapper:								
Mangrove	8, 170	300						
Red	566, 454	45, 317			2, 094	209		
Snook or sergeantfish	15, 631	426					40, 000	1, 600
Spadefish	220	6						
Spanish mackerel	392, 095	20, 300			640	64	425, 000	25, 500
Spot	440	12						
Squeteagues or "sea trout":								
Gray	8, 767	259					15, 000	1, 200
Spotted	316, 633	24, 136			26, 050	2, 600		
Sunfish			249, 839	7, 513				
Tenpounder	7, 150	195						
Crabs, stone	145, 050	9, 670						
Sea crawfish or spiny lobster					3, 309	331		
Shrimp					5, 743, 500	229, 740	2, 272, 450	63, 898
Clams, hard, public	4, 848	727			4, 152	778		
Oysters:								
Market, public, spring					972	60	10, 371	1, 120
Market, public, fall					2, 269	140	10, 195	1, 155
Scallops, bay	15, 295	1, 657						
Terrapin, diamond-back					406	83		
Turtles, soft-shell			11, 578	235				
Sponges:								
Grass	62, 010	19, 846						
Sheepswool	319, 945	795, 578						
Wire	3, 291	1, 931						
Yellow	61, 341	35, 583						
Total	4, 793, 081	1, 053, 187	2, 706, 617	148, 417	5, 847, 592	238, 737	3, 451, 016	133, 383

Species	Santa Rosa		Sarasota		Seminole		Taylor	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bluefish			25, 839	$1, 879			8, 580	$312
Blue runner or hardtail			9, 240	252				
Catfish and bullheads					300, 000	$15, 000		
Crevalle			1, 320	24				
Croaker			3, 850	70				
Drum:								
Black			1, 100	22				
Red or redfish	3, 520	$160	79, 564	2, 195			32, 395	1, 178
Flounders	9, 262	840	4, 125	182			1, 650	90
Groupers			6, 527	196				

Fisheries of Florida, 1930—Continued

CATCH: BY COUNTIES—Continued

Species	Santa Rosa		Sarasota		Seminole		Taylor	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Grunts			1,800	$54				
Kingfish or "king mackerel"			165,231	12,017				
Mullet	143,800	$4,314	1,521,895	45,657			360,100	$14,404
Permit			550	15				
Pigfish			7,490	217				
Pompano			86,744	17,348			4,180	760
Porgies			900	27				
Shad					295,000	$35,400		
Sheepshead	440	20	170,147	4,749			15,950	725
Snapper, mangrove			3,388	93			3,300	90
Snook or sergeantfish			19,912	543				
Spadefish			1,320	36				
Spanish mackerel			269,958	19,632			2,640	120
Spot			550	15			990	20
Squeteagues or "sea trout":								
Spotted	4,180	380	169,217	12,298			108,446	7,587
Clams, hard, public			1,760	264				
Oysters:								
Market, public, spring	7,208	636						
Market, public, fall	13,260	1,170						
Scallops, bay			2,597	294				
Total	181,670	7,520	2,555,024	118,079	595,000	50,400	538,231	25,286

Species	Volusia		Wakulla		Walton	
	Pounds	Value	Pounds	Value	Pounds	Value
Black bass	2,400	$240				
Bluefish	400	40	14,960	$408		
Blue runner or hardtail			1,650	30		
Catfish and bullheads	56,000	2,800				
Crappie	6,200	372				
Crevalle	5,200	156				
Croaker	1,200	36	2,935	53		
Drum:						
Black	1,800	45				
Red or redfish	7,816	292	33,137	1,004	1,650	$75
Flounders	200	8	330	9	165	12
King whiting or "kingfish"	26,500	810			880	24
Mullet	281,800	8,754	1,750,729	52,522	90,400	2,712
Pigfish	20,466	409				
Pinfish or sailors choice	3,740	77				
Pompano	400	80			55	12
Sheepshead	1,100	44	11,188	421	1,320	60
Snapper, mangrove	400	24				
Spot	4,100	120				
Squeteagues or "sea trout":						
Gray	122,620	7,387				
Spotted			155,502	11,309	11,275	820
Sunfish	18,000	540				
Crabs, hard	19,800	396				
Shrimp	2,463,400	86,536				
Clams:						
Hard, public	22,000	1,225				
Hard, private	21,000	1,050				
Oysters:						
Market, public, spring	5,618	607	7,820	460		
Market, public, fall	8,859	957	9,877	581		
Market, private, spring	11,237	1,213				
Market, private, fall	14,478	1,563				
Total	3,126,734	115,781	1,988,128	66,797	105,745	3,715

Fisheries of Florida, 1930—Continued

CATCH: BY DISTRICTS

Species	East Coast		West Coast		Lake Okeechobee	
	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	365,732	$5,486				
Amberjack	2,720	111	18,500	$556		
Black bass	115,585	12,655			217,501	$18,960
Bluefish	400,429	35,465	753,118	30,489		
Blue runner	22,000	440	732,245	13,560		
Bonito			1,190	24		
Cabio			10,307	437		
Catfish and bullheads	2,285,109	108,045	218,592	11,086	1,842,530	73,781
Cero	5,000	300	4,950	180		
Cigarfish			58,412	1,752		
Crappie	251,002	15,130			647,974	19,259
Crevalle	70,433	2,086	19,923	373		
Croaker	14,300	378	18,720	357		
Dolphin	5,000	500				
Drum:						
Black	25,915	663	8,709	230		
Red or redfish	86,564	3,561	937,320	30,472		
Eels	16,600	840	543	16		
Flounders	10,996	464	108,615	5,788		
Groupers	45,000	1,600	3,019,802	90,594		
Grunts	7,000	210	14,883	447		
Hickory shad	29,616	888				
Hogfish	2,000	100				
Jewfish	8,000	240	18,050	542		
Kingfish or "king mackerel"	2,282,385	111,639	1,403,480	63,367		
King whiting or "kingfish"	138,900	4,803	14,233	362		
Menhaden	34,242,408	145,920	6,171,762	30,526		
Mojarro	37,000	1,300	44,275	1,208		
Mullet	2,903,567	79,566	19,118,239	589,902		
Muttonfish	154,035	10,753	71,004	4,693		
Permit			14,882	449		
Pigfish	27,455	577	34,700	1,024		
Pinfish or sailors choice	77,610	1,504	440	20		
Pompano	135,726	29,920	437,627	81,796		
Porgies	8,000	240	47,033	1,403		
Porkfish			600	36		
Sea bass	44,000	3,080	4,640	126		
Shad	879,732	129,014				
Sharks			2,187,500	3,500		
Sheepshead	125,168	4,682	746,965	25,086		
Snapper:						
Mangrove	23,800	1,393	98,020	3,454		
Red or redfish	34,030	2,912	5,001,672	424,228		
Snook or sergeantfish	77,360	3,236	290,749	8,039		
Spadefish			48,561	1,445		
Spanish mackerel	2,028,137	113,369	4,112,080	180,806		
Spot	130,068	3,690	12,488	322		
Squeteagues or "sea trout":						
Gray	588,134	43,034	11,066	321		
Spotted	79,621	7,956	2,710,945	194,585		
Sturgeon	150	34	8,260	1,225		
Sunfish	274,956	8,267			159,227	4,776
Tenpounder			181,361	5,213		
Tripletail			4,869	168		
Turbot			900	54		
Yellowtail	40,000	3,200	49,470	3,471		
Crabs:						
Hard	107,200	3,986	4,095	117		
Stone	103,000	12,800	204,550	13,830		
Sea crawfish or spiny lobster	108,309	12,331	180,000	14,400		
Shrimp	15,259,597	571,381	1,588,979	64,125		
Clams:						
Hard, public	26,152	2,003	661,736	42,537		
Hard, private	23,688	1,890				
Conchs			20,000	200		
Oysters:						
Market, public, spring	81,185	6,741	708,983	44,727		
Market, public, fall	86,143	7,252	792,099	73,852		
Market, private, spring	35,545	3,063				
Market, private, fall	79,298	6,563				
Scallops, bay			21,867	2,139		
Terrapin, diamond-back	406	83				
Turtles:						
Green			21,550	1,078		
Soft-shell	11,578	235				

Fisheries of Florida, 1930—Continued

CATCH: BY DISTRICTS—Continued

Species	East Coast		West Coast		Lake Okeechobee	
	Pounds	Value	Pounds	Value	Pounds	Value
Sponges:						
Grass	--------	--------	82, 918	$26, 556	--------	--------
Sheepswool	--------	--------	370, 465	858, 699	--------	--------
Velvet	--------	--------	682	409	--------	--------
Wire	--------	--------	3, 781	2, 041	--------	--------
Yellow	--------	--------	91, 155	42, 955	--------	--------
Total	64, 023, 344	$1, 527, 579	53, 524, 560	3, 001, 397	2, 867, 232	$116, 776

Industries related to the fisheries of Florida, 1930

TRANSPORTING

Item	Charlotte County	Collier County	Escambia County	Lee County	Levy County	Nassau County	Monroe County	Pinellas County	Total
Persons engaged:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	17	2	2	8	2	--------	13	7	51
On boats	--------	--------	--------	--------	--------	1	--------	46	47
Total	17	2	2	8	2	1	13	53	98
Vessels:									
Motor—									
5 to 10 tons	2	--------	--------	--------	2	--------	1	2	7
11 to 20 tons	3	1	1	3	--------	--------	4	--------	12
21 to 30 tons	--------	--------	--------	1	--------	--------	1	1	3
31 to 40 tons	1	--------	--------	--------	--------	--------	1	--------	2
Total	6	1	1	4	2	--------	7	3	24
Net tonnage	107	16	12	69	16	--------	124	35	379
Sail—									
5 to 10 tons	--------	--------	--------	--------	--------	--------	--------	1	1
11 to 20 tons	--------	--------	--------	--------	--------	--------	1	1	2
Total	--------	--------	--------	--------	--------	--------	1	2	3
Net tonnage	--------	--------	--------	--------	--------	--------	16	25	41
Total vessels	6	1	1	4	2	--------	8	5	27
Total net tonnage	107	16	12	69	16	--------	140	60	420
Boats	--------	--------	--------	--------	--------	3	--------	38	41

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Bay County	Brevard and Indian River Counties	Charlotte, Lee, and Collier Counties	Citrus and Pasco Counties	Clay County	Dade County	Duval County	Escambia and Okaloosa Counties
Establishments	10	13	8	8	3	9	13	4
Persons engaged:								
Proprietors	10	14	12	10	4	11	17	5
Salaried employees	3	3	9	--------	--------	5	18	9
Wage earners—								
Average for season	19	27	59	28	6	18	158	37
Average for year	17	13	54	16	6	18	88	37
Paid to salaried employees	$5, 700	$2, 720	$31, 952	--------	--------	$12, 520	$83, 146	$40, 992
Paid to wage earners	13, 092	9, 610	45, 856	$7, 740	$3, 280	24, 240	79, 404	31, 597
Total salaries and wages	18, 792	12, 330	77, 808	7, 740	3, 280	36, 760	162, 550	72, 589

Industries related to the fisheries of Florida, 1930—Continued

WHOLESALE AND MANUFACTURING—Continued

OPERATING UNITS, SALARIES, AND WAGES—Continued

Item	Franklin County	Gulf County	Glades, Okeechobee, and Hendry Counties	Hillsborough County	Levy and Dixie Counties	Taylor and Wakulla Counties	Manatee County	Monroe County
stablishments	21	4	6	6	7	4	7	12
ersons engaged:								
Proprietors	24	4	6	8	9	6	11	11
Salaried employees	13	3	3	3	2			6
Wage earners—								
Average for season	465	42	14	7	16	7	9	52
Average for year	150	23	12	7	16	7	8	37
aid to salaried employees	$24, 320	$9, 000	$3, 560	$5, 844	$2, 400		$6, 160	$15, 240
aid to wage earners	69, 093	17, 415	7, 240	4, 910	8, 834	$4, 510	5, 890	34, 858
Total salaries and wages	93, 413	26, 415	10, 800	10, 754	11, 234	4, 510	12, 050	50, 098

Item	Nassau County	Palm Beach County	Pinellas County	Putnam and St. Johns Counties	Sarasota County	St. Lucie County	Volusia and Seminole Counties	Total
stablishments	7	12	25	16	3	11	14	223
ersons engaged:								
Proprietors	11	20	39	15	3	13	16	279
Salaried employees	6	4	5	7	2	3		104
Wage earners—								
Average for season	411	15	77	282	10	42	11	1, 812
Average for year	177	15	53	63	10	22	8	857
aid to salaried employees	$30, 086	$4, 100	$31, 572	$10, 568	$2, 900	$5, 100		$327, 880
aid to wage earners	95, 375	12, 380	35, 651	28, 099	7, 646	15, 250	$4, 748	566, 718
Total salaries and wages	125, 461	16, 480	67, 223	38, 667	10, 546	20, 350	4, 748	894, 598

PRODUCTS MANUFACTURED

Item		Quantity	Value
enhaden products:			
Acid scrap	tons	2, 782	$71, 250
Dry scrap	do	4, 736	230, 241
Meal	do	7, 142	368, 637
Oil	gallons	481, 948	94, 064
ullet:			
Dry-salted	pounds	370, 067	19, 199
Roe, salted	do	29, 684	7, 920
anish mackerel, dry-salted	do	70, 100	5, 155
rimp, canned	standard cases	69, 372	491, 231
sters, fresh-shucked	gallons	134, 731	203, 327
nclassified products:			
Fresh and frozen fillets [1]	pounds	79, 499	16, 626
Fresh and frozen steaks and sticks [2]	do	163, 428	22, 049
Other fresh packaged and salted [3]		([4])	4, 670
Canned [5]		([4])	228, 322
By-products [6]		([4])	233, 060
Total			1, 995, 751

Includes fresh fillets of snook, groupers, and red snapper; frozen fillets of amberjack, bluefish, flounders, upers, mullet, Spanish mackerel, and red snapper.

Includes fresh and frozen amberjack, grouper, and red snapper steaks; and frozen red snapper fish sticks.

Includes fresh-cooked crab meat; fresh-shucked hard clams, conchs and bay scallops; and salted bluefish.

Data not available.

Includes canned hard clam products, oysters, and green turtle meat and soup.

Includes oyster-shell products; shark hides, fins, teeth, and oil; fish scrap; shrimp meal; and novelties de from shells and fish scales.

Industries related to the fisheries of Florida, 1930—Continued

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 240]

Item	Quantity	Value
Mullet:		
Dry-salted pounds	471, 600	$23, 496
Roe, dry-salted do	43, 200	10, 800
Sturgeon roe, fresh do	10	5
Crab meat, packaged (fresh-cooked) do	600	210
Oysters, fresh-shucked gallons	6, 143	8, 548
Scallops, bay, fresh-shucked do	2, 247	3, 218
Total		46, 277

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 47 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 228 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Sponge fishery of Florida, 1930

OPERATING UNITS: BY GEAR

Item	Sponge hooks	Diving outfits	Total
	Number	*Number*	*Number*
Fishermen on boats and shore, regular	334	412	746
Boats:			
Motor		55	55
Other	283		283
Apparatus	283	55	

CATCH: BY GEAR

Sponges	Sponge hooks		Diving outfits		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Grass	76, 718	$24, 572	6, 200	$1, 984	82, 918	$26, 556
Sheepswool	98, 513	182, 458	271, 952	676, 241	370, 465	858, 699
Velvet	682	409			682	409
Wire	490	110	3, 291	1, 931	3, 781	2, 041
Yellow	39, 015	12, 709	52, 140	30, 246	91, 155	42, 955
Total	215, 418	220, 258	333, 583	710, 402	549, 001	930, 660

SPONGES SOLD AT THE EXCHANGE, TARPON SPRINGS, FLA.

During 1931 sponges handled on the exchange at Tarpon Springs, Fla., amounted to 372,771 pounds, valued at $609,773. This is a decrease of 10 per cent in quantity and 24 per cent in value as compared with the quantity and value of the transactions on the exchange during 1930. A large part of this decrease may be attributed to the fact that there was an unusually large hold over on January 1, 1932.

It is estimated that the value of sponges sold outside the exchange during 1931 amounted to $40,000. Of the total sponges sold on the exchange in 1931, 168,820 pounds, valued at $522,156, were large wool; 30,837 pounds, valued at $24,670, were small wool; 97,742 pounds, valued at $39,096, were yellow; 62,982 pounds, valued at $18,895, were grass; and 12,390 pounds, valued at $4,956, were wire sponges.

ALABAMA

Fisheries of Alabama, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Trammel nets	Lines			
			Hand	Troll	Trot, with baits or snoods	Trot, with hooks
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:						
On vessels	6	16	96			
On boats and shore—						
Regular	39	84	32	4	5	34
Casual		4	21		9	
Total	45	104	149	4	14	34
Vessels, motor:						
5 to 10 tons	1	4	3			
11 to 20 tons			7			
61 to 70 tons			1			
Total	1	4	11			
Net tonnage	9	32	186			
3oats:						
Motor	11	32	6	2		4
Other	3	77	14		14	34
ccessory boats	1	12				
pparatus:						
Number	8	84	149	2	14	177
Length, yards	5,900					
Square yards		28,692				
Hooks, baits, or snoods			271	2	2,475	17,900

Item	Fyke nets	Otter trawls, shrimp	Spears	Tongs	By hand	Total, exclusive of duplication
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
ishermen:						
On vessels		30				142
On boats and shore—						
Regular	29	246	4	112	14	469
Casual			17	4	18	55
Total	29	276	21	116	32	666
essels, motor:						
5 to 10 tons		14				21
11 to 20 tons		1				8
61 to 70 tons						1
Total		15				30
Net tonnage		117				335
oats:						
Motor	4	123		47		185
Other	29			41		183
ccessory boats						13
pparatus:						
Number	119	138	21	116		
Yards at mouth		1,800				

Fisheries of Alabama, 1930—Continued

CATCH: BY GEAR

Species	Haul seines		Trammel nets		Lines			
					Hand		Troll	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	12,749	$558	7,905	$368				
Bluerunner or hardtail	2,205	63						
Cabio							2,200	$100
Catfish and bullheads	1,105	51	9,644	474	1,375	$100		
Crevalle	2,558	70						
Croaker	2,403	78	4,940	165	104	4		
Drum:								
Black	6,796	335	4,787	229	110	5		
Red or redfish	44,733	3,012	55,520	2,884	4,081	211		
Flounders			11,233	783				
Groupers					177,945	5,338		
Jewfish					5,021	151		
King whiting or "kingfish"	2,520	95	2,838	88	440	16		
Mullet	757,220	29,332	1,448,158	56,675				
Pompano	171	33	4,891	757				
Sheepshead, salt-water	8,552	499	7,741	420	1,276	69		
Snapper, red					847,918	67,833		
Spadefish			110	3				
Spanish mackerel	484	48	5,324	290				
Spot	635	21	926	45				
Squeteagues or "sea trout":								
Gray	207	10	5,940	216	440	20		
Spotted	13,769	1,157	86,374	6,578	5,838	533		
Sturgeon	1,816	297						
Tenpounder	5,369	215						
Tripletail			55	2	220	11		
Total	863,292	35,874	1,656,386	69,977	1,044,768	74,291	2,200	100

Species	Lines—Continued				Fyke nets		Otter trawls, shrimp	
	Trot, with baits or snoods		Trot, with hooks					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish			61,176	$3,339	39,679	$2,164		
Catfish and bullheads			48,428	3,265	30,352	2,111		
Paddlefish			2,251	125				
Crabs, hard	79,968	$1,142						
Shrimp							2,982,200	$97,219
Total	79,968	1,142	111,855	6,729	70,031	4,275	2,982,200	97,219

Species	Spears		Tongs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders	12,947	$1,177				
Crabs, soft					780	$195
Oysters:						
Market, public, spring			40,144	$3,755		
Market, public, fall			225,506	17,723		
Market, private, spring			4,080	480		
Market, private, fall			17,064	1,896		
Terrapin, diamond-back					2,018	635
Total	12,947	1,177	286,794	23,854	2,798	830

OPERATING UNITS: BY COUNTIES

Item	Baldwin	Mobile
	Number	*Number*
Fishermen:		
On vessels	6	136
On boats and shore—		
Regular	68	401
Casual	14	41
Total	88	578

Fisheries of Alabama, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Baldwin	Mobile
	Number	*Number*
Vessels, motor:		
5 to 10 tons	2	19
11 to 20 tons		8
61 to 70 tons		1
Total	2	28
Net tonnage	16	319
Boats:		
Motor	26	159
Other	43	140
Accessory boats	2	11
Apparatus:		
Haul seines	1	7
Length, yards	500	5, 400
Trammel nets	36	48
Square yards	13, 285	15, 407
Lines—		
Hand	9	140
Hooks	9	262
Troll	2	
Hooks	2	
Trot, with baits or snoods		14
Baits or snoods		2, 475
Trot, with hooks	2	175
Hooks	400	17, 500
Fyke nets		119
Otter trawls, shrimp	7	131
Yards at mouth	90	1, 710
Spears	7	14
Tongs	19	97

CATCH: BY COUNTIES

Species	Baldwin		Mobile	
	Pounds	Value	Pounds	Value
Bluefish	9, 398	$365	11, 256	$561
Blue runner or hardtail	825	22	1, 380	41
Buffalofish			100, 855	5, 503
Cabio	2, 200	100		
Catfish and bullheads	9, 193	481	81, 711	5, 520
Crevalle	330	9	2, 228	61
Croaker	2, 877	96	4, 570	151
Drum:				
Black	1, 318	60	10, 375	509
Red or redfish	30, 674	1, 518	73, 660	4, 589
Flounders	5, 390	385	18, 790	1, 575
Groupers			177, 945	5, 338
Jewfish			5, 021	151
King whiting or "kingfish"	1, 650	45	4, 148	154
Mullet	716, 461	28, 425	1, 488, 917	57, 582
Paddlefish			2, 251	125
Pompano	4, 061	662	1, 001	128
Sheepshead, salt water	3, 740	204	13, 829	784
Snapper, red			847, 918	67, 833
Spadefish			110	3
Spanish mackerel	4, 444	242	1, 364	96
Spot	1, 012	47	549	19
Squeteagues or "sea trout":				
Gray			6, 587	246
Spotted	32, 009	2, 405	73, 972	5, 863
Sturgeon	1, 816	297		
Tenpounder			5, 369	215
Tripletail	55	2	220	11
Crabs:				
Hard			79, 968	1, 142
Soft			780	195
Shrimp	168, 400	5, 490	2, 813, 800	91, 729
Oysters:				
Market, public, spring	3, 570	315	36, 574	3, 440
Market, public, fall	10, 761	949	214, 745	16, 774
Market, private, spring			4, 080	480
Market, private, fall	17, 064	1, 896		
Terrapin, diamond-back	1, 142	416	876	219
Total	1, 028, 390	44, 431	6, 084, 849	271, 037

Industries related to the fisheries of Alabama, 1930

TRANSPORTING

Item	Baldwin County	Mobile County	Total
	Number	*Number*	*Number*
Persons engaged:			
On vessels	6	6	12
On boats		18	18
Total	6	24	30
Vessels, motor:			
5 to 10 tons	2	3	5
11 to 20 tons	1		1
Total	3	3	6
Net tonnage	33	22	55
Boats		3	3

WHOLESALE AND MANUFACTURING IN BALDWIN AND MOBILE COUNTIES

Operating Units, Salaries, and Wages

Establishments	21
Persons engaged:	
Proprietors	31
Salaried employees	16
Wage earners—	
Average for season	492
Average for year	218
Paid to salaried employees	$52, 105
Paid to wage earners	86, 135
Total salaries and wages	138, 240

Products Manufactured

Item	Quantity	Value
Mullet, dry-salted ..... pounds	45, 000	$2, 450
Shrimp, canned ..... standard cases	43, 942	246, 768
Oysters, fresh-shucked ..... gallons	15, 209	18, 295
Miscellaneous [1]	([2])	62, 477
Total		329, 990

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 46]

Sturgeon roe, fresh ..... pounds	32	$19
Oysters, fresh-shucked ..... gallons	7, 259	7, 680
Total		7, 699

[1] Includes frozen red snapper fillets; salted mullet roe; cooked shrimp; canned oysters; dry shrimp hulls; and oyster-shell products.

[2] Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 18 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 42 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

MISSISSIPPI

Fisheries of Mississippi, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Trammel nets	Lines		Dip nets, drop	Cast nets
			Hand	Trot, with baits or snoods		
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:						
On vessels			16			
On boats and shore—						
Regular	272	96	37	54	2	
Casual		6	114	12	32	54
Total	272	102	167	66	34	54
Vessels:						
Motor—						
5 to 10 tons			1			
11 to 20 tons			1			
Total			2			
Net tonnage			25			
Boats:						
Motor	45	34	15	9	1	
Other	30	51	104	60	14	
Apparatus:						
Number	45	55	167	66	232	54
Length, yards	9, 220					
Square yards		17, 785				
Hooks, baits, or snoods			201	20, 795		

Item	Otter trawls, shrimp	Spears	Dredges, oyster	Tongs	By hand	Total, exclusive of duplication
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:						
On vessels	225		530			555
On boats and shore—						
Regular	598	8	380	440		1, 355
Casual	9	68			31	193
Total	832	76	910	440	31	2, 103
Vessels:						
Motor—						
5 to 10 tons	35		41			44
11 to 20 tons	26		67			69
21 to 30 tons	3		10			11
31 to 40 tons			1			1
Total	64		119			125
Net tonnage	711		1, 600			1, 678
Sail—						
5 to 10 tons			1			1
11 to 20 tons			4			4
Total			5			5
Net tonnage			66			66
Total vessels	64		124			130
Total net tonnage	711		1, 666			1, 744
oats:						
Motor	408		95	30		401
Other				406		615
pparatus:						
Number	363	76	437	440		
Yards at mouth	4, 607		443			

Fisheries of Mississippi, 1930—Continued

CATCH: BY GEAR

Species	Haul seines		Trammel nets		Lines			
					Hand		Trot, with baits or snoods	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish			19, 191	$1, 047				
Buffalofish					14, 969	$680		
Cabio or crab eater			1, 100	60	737	38		
Catfish and bullheads			38, 146	1, 734	23, 276	1, 058		
Crevalle			9, 847	269	110	3		
Croaker			6, 105	221	5, 170	176		
Drum:								
Black			19, 270	901	1, 485	71		
Red or redfish			112, 972	6, 227	9, 058	494		
Flounders			31, 886	2, 542				
Groupers					71, 093	2, 133		
Jewfish					1, 274	38		
King whiting or "kingfish"			5, 604	183				
Mullet			790, 735	31, 629				
Pompano			791	228				
Sheepshead, salt-water			28, 509	1, 625	1, 568	86		
Snapper, red					188, 725	15, 875		
Spanish mackerel			1, 027	71	328	17		
Squeteagues or "sea trout":								
Gray			58, 591	1, 953	48, 576	1, 767		
Spotted			79, 612	7, 381	45, 500	4, 963		
Sturgeon			73	22				
Tenpounder			4, 725	142				
Tripletail			1, 540	124	997	55		
Crabs, hard							574, 679	$9, 720
Shrimp	104, 400	$3, 915						
Total	104, 400	3, 915	1, 209, 724	56, 359	412, 866	27, 454	574, 679	9, 720

Species	Dip nets, drop		Cast nets		Otter trawls, shrimp		Spears	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounder					8, 855	$805	28, 248	$2, 654
Mullet			11, 020	$491				
Sheepshead, salt-water			440	24				
Crabs, hard	98, 602	$1, 409						
Shrimp			6, 570	792	8, 378, 080	314, 164		
Total	98, 602	1, 409	18, 030	1, 307	8, 386, 935	314, 969	28, 248	2, 654

Species	Dredges, oyster		Tongs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, soft					5, 800	$1, 740
Oysters:						
Market, public, spring, Mississippi	1, 913, 904	$125, 508	280, 182	$18, 718		
Market, public, fall, Mississippi	68, 820	4, 313	171, 794	12, 380		
Market, public, spring, Louisiana	1, 695, 860	111, 209	69, 244	4, 626		
Market, public, fall, Louisiana	673, 832	42, 224	22, 610	1, 629		
Total	4, 352, 416	283, 254	543, 830	37, 353	5, 800	1, 740

OPERATING UNITS: BY COUNTIES

Item	Hancock	Harrison	Jackson
	Number	*Number*	*Number*
Fishermen:			
On vessels		524	31
On boats and shore—			
Regular	41	1, 126	188
Casual	38	107	48
Total	79	1, 757	267

Fisheries of Mississippi, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Hancock	Harrison	Jackson
Vessels:			
Motor—	*Number*	*Number*	*Number*
5 to 10 tons		43	1
11 to 20 tons		66	3
21 to 30 tons		9	2
31 to 40 tons		1	
Total		119	6
Net tonnage		1,573	105
Sail—			
5 to 10 tons		1	
11 to 20 tons		4	
Total		5	
Net tonnage		66	
Total vessels		124	6
Total net tonnage		1,639	105
Boats:			
Motor	17	322	62
Other	47	467	101
Apparatus:			
Haul seines		44	1
Length, yards		9,020	200
Trammel nets	9	22	24
Square yards	3,006	8,354	6,425
Lines—			
Hand	26	67	74
Hooks	26	67	108
Trot, with baits or snoods		56	10
Baits or snoods		19,345	1,450
Dip nets, drop	232		
Cast nets		50	4
Otter trawls, shrimp		321	42
Yards at mouth		4,084	523
Spears	9	51	16
Dredges, oyster		429	8
Yards at mouth		435	8
Tongs	17	370	53

CATCH: BY COUNTIES

Species	Hancock		Harrison		Jackson	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish					19,191	$1,047
Buffalofish					14,969	680
Cabio or crab eater			1,837	$98		
Catfish and bullheads	7,920	$360	37,818	1,719	15,684	713
Crevalle			330	9	9,627	263
Croaker	550	20	5,115	181	5,610	196
Drum:						
Black	4,620	168	9,119	436	7,016	368
Red or redfish	16,830	918	43,510	2,373	61,690	3,430
Flounders	13,575	1,124	38,665	3,413	16,749	1,464
Groupers					71,093	2,133
Jewfish					1,274	38
King whiting or "kingfish"	550	15	3,685	122	1,369	46
Mullet	48,500	1,940	86,789	3,521	666,466	26,659
Pompano			165	45	626	183
Sheepshead, salt-water	4,950	270	5,198	284	20,369	1,181
Snapper, red					188,725	15,875
Spanish mackerel	480	28	248	13	627	47
Squeteagues or "sea trout":						
Gray	26,850	798	37,356	1,360	42,961	1,562
Spotted	35,310	3,423	43,917	4,394	45,885	4,527
Sturgeon					73	22
Tenpounder					4,725	142
Tripletail	440	24	1,155	76	942	79
Crabs:						
Hard	98,602	1,409	501,249	8,646	73,430	1,074
Soft	1,320	396	4,480	1,344		
Shrimp			7,888,830	296,231	600,220	22,640
Oysters:						
Market, public, spring, Mississippi	31,990	2,856	1,981,886	129,110	135,982	9,893
Market, public, fall, Mississippi	57,120	4,896	134,858	8,474	48,636	3,414
Market, public, spring, Louisiana			1,765,776	115,033	43,556	3,169
Market, public, fall, Louisiana			696,442	43,762		
Total	349,607	18,645	13,288,428	620,644	2,097,495	100,845

Industries related to the fisheries of Mississippi, 1930

TRANSPORTING IN HARRISON COUNTY

Persons engaged on boats	26
Boats	13

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Hancock and Harrison Counties	Jackson County	Total
Establishments	45	8	53
Persons engaged:			
Proprietors	60	12	72
Salaried employees	29	8	37
Wage earners—			
Average for season	2,375	171	2,546
Average for year	1,004	52	1,056
Paid to salaried employees	$95,176	$11,085	$106,261
Paid to wage earners	350,934	18,497	369,431
Total salaries and wages	446,110	29,582	475,692

PRODUCTS MANUFACTURED

Item	Quantity	Value
Crab meat, packaged (fresh-cooked) pounds	57,150	$16,810
Shrimp:		
Packaged, cooked, and peeled do	193,145	59,594
Canned—		
Wet in tins and glass standard cases	61,273	336,035
Dry in tins do	45,904	268,290
Oysters:		
Fresh-shucked gallons	83,404	125,136
Canned standard cases	224,921	1,034,362
Shell products—		
Poultry feed tons	38,663	270,641
Lime do	7,733	5,126
Miscellaneous [1]	(2)	25,125
Total		2,141,119

FISHERMEN'S PREPARED PRODUCTS

[Number of persons engaged, 61]

Oysters, fresh-shucked gallons	7,446	$9,658

[1] Includes salted mullet, canned shrimp gumbo soup, and shrimp meal.
[2] Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 26 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 57 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

LOUISIANA

Fisheries of Louisiana, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets, run-around	Trammel nets	Lines		
				Hand	Trot, with baits or snoods	Trot, with hooks
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On boats and shore—						
Regular	608	2	98	61	201	3
Casual	47		2	86	87	
Total	655	2	100	147	288	3
Boats:						
Motor	129	1	45	28	25	3
Other	177	1	51	100	259	
Apparatus:						
Number	138	1	50	147	288	3
Length, yards	27, 875					
Square yards		30	13, 712			
Hooks, baits, or snoods				152	58, 370	300

Item	Dip nets, drop	Cast nets	Otter trawls, shrimp	Dredges, clam	Tongs	By hand	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			249	147			370
On boats and shore—							
Regular	8	3	1, 650	14	524	125	2, 775
Casual	15				2	94	238
Total	23	3	1, 899	161	526	219	3, 383
Vessels, motor;							
5 to 10 tons			107	30			133
11 to 20 tons			8	10			15
Total vessels			115	40			148
Total net tonnage			780	370			1, 074
Boats:							
Motor	11		825	4	3		997
Other	21				523		1, 073
Apparatus:							
Number	1, 700	3	940	72	526		
Yards at mouth			12, 213	72			

CATCH: BY GEAR

Species	Haul seines		Gill nets, runaround		Trammel nets		Lines—Hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads	24, 400	$856			35, 443	$1, 199	27, 700	$1, 030
Crevalle					165	15		
Croaker	29, 860	1, 972			25, 903	1, 905	4, 100	328
Drum:								
Black	31, 013	1, 255			91, 423	3, 463	44, 000	1, 733
Red or redfish	65, 322	5, 017			176, 640	13, 776	92, 920	7, 166
Flounders	5, 030	481			18, 037	1, 602		
Garfish					1, 320	120		
Groupers							3, 500	105
Jewfish							6, 000	180
King whiting or "kingfish"	21, 450	675			32, 917	1, 029		
Mullet	7, 809	269			110	10		
Pompano					1, 112	301		
Sharks							300, 000	1, 400
Sheepshead, salt-water	19, 430	1, 150			65, 994	3, 818	16, 700	1, 025
Snapper, red							76, 400	6, 112
Spanish mackerel							1, 800	108
Spot	6, 000	179			3, 704	111		
Squeteagues or "sea trout":								
Gray	68, 150	2, 106			164, 379	4, 943	90, 800	2, 760
Spotted	73, 093	8, 529	151	$14	204, 357	23, 536	109, 500	13, 785
Tripletail					5, 301	455		
Shrimp	677, 810	21, 624						
Turtles, loggerhead	50, 050	1, 052						
Total	1, 079, 417	45, 615	151	14	826, 805	56, 283	773, 420	35, 732

Fisheries of Louisiana, 1930—Continued

CATCH: BY GEAR—Continued

Species	Lines—Continued				Dip nets, drop		Cast nets	
	Trot, with baits or snoods		Trot, with hooks					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads			1,600	$128				
Mullet							1,053	$32
Crabs, hard	4,044,995	$60,637			141,000	$2,820		
Total	4,044,995	60,637	1,600	128	141,000	2,820	1,053	32

Species	Otter trawls, shrimp		Dredges, oyster		Tongs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, soft							145,732	$58,068
Shrimp	37,986,677	$1,138,002						
Oysters:								
Market, public, spring			266,664	$11,111	4,800	$640		
Market, public, fall			342,708	18,932	63,960	6,008		
Market, private, spring			184,800	9,748	1,613,032	191,909		
Market, private, fall			639,884	80,026	1,730,452	231,672		
Terrapin, diamond-back							38,750	12,980
Total	37,986,677	1,138,002	1,434,056	119,817	3,412,244	430,229	184,482	71,048

OPERATING UNITS: BY PARISHES

Item	Cameron	Iberia	Jefferson Davis	Jefferson	La Fourche	Orleans
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				20	95	57
On boats and shore—						
Regular	9	14	4	721	568	158
Casual		10		40	2	19
Total	9	24	4	781	665	234
Vessels, motor:						
5 to 10 tons				8	44	15
11 to 20 tons				1	1	2
Total vessels				9	45	17
Total net tonnage				63	296	142
Boats:						
Motor	4	2	2	261	232	68
Other	4	19		166	168	61
Apparatus:						
Haul seines		1	1	37	10	22
Length, yards		100	75	13,225	1,680	2,660
Gill nets, runaround	1					
Square yards	30					
Trammel nets		1		10	4	7
Square yards		96		2,822	1,160	1,480
Lines—						
Hand				17		14
Hooks				17		19
Trot, with baits or snoods	2	6		40	7	
Baits or snoods	280	520		8,500	1,450	
Trot, with hooks	3					
Hooks	300					
Dip nets, drop						1,220
Cast nets	3					
Otter trawls, shrimp	1		2	222	272	39
Yards at mouth	11		27	2,830	3,564	543
Dredges, oyster				2	1	23
Yards at mouth				2	1	23
Tongs	5	14		70	150	

Fisheries of Louisiana, 1930—Continued

OPERATING UNITS: BY PARISHES—Continued

Item	Plaquemines	St. Bernard	St. Charles	St. Mary	St. Tammany	Terrebonne	Vermilion
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	74	--------	--------	34	8	82	--------
On boats and shore—							
Regular	362	199	24	135	10	522	49
Casual	8	64	--------	19	3	47	26
Total	444	263	24	188	21	651	75
Vessel, motor:							
5 to 10 tons	22	--------	--------	9	1	34	--------
11 to 20 tons	4	--------	--------	3	1	3	--------
Total vessels	26	--------	--------	12	2	37	--------
Total net tonnage	189	--------	--------	114	22	248	--------
Boats:							
Motor	137	49	12	37	2	172	19
Other	93	188	--------	81	8	260	25
Apparatus:							
Haul seines	17	22	--------	4	--------	11	13
Length, yards	2,950	3,455	--------	540	--------	1,180	2,010
Trammel nets	8	14	--------	--------	--------	5	1
Square yards	2,525	4,791	--------	--------	--------	705	133
Lines—							
Hand	--------	54	--------	--------	--------	62	--------
Hooks	--------	54	--------	--------	--------	62	--------
Trot, with baits or snoods	7	135	--------	83	--------	2	6
Baits or snoods	1,350	29,920	--------	15,800	--------	250	300
Dip nets, drop	--------	--------	--------	--------	480	--------	--------
Otter trawls, shrimp	134	24	12	44	--------	188	2
Yards at mouth	1,704	308	157	583	--------	2,461	25
Dredges, oyster	22	--------	--------	10	4	6	4
Yards at mouth	22	--------	--------	10	4	6	4
Tongs	55	--------	--------	26	4	200	2

CATCH: BY PARISHES

Species	Cameron		Iberia		Jefferson Davis		Jefferson	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Catfish and bullheads	1,600	$128	--------	--------	--------	--------	2,000	$60
Croaker	--------	--------	55	$2	440	$12	1,520	45
Drum:								
Black	--------	--------	137	12	55	2	8,330	250
Red or redfish	--------	--------	550	50	660	48	37,000	2,960
Flounders	--------	--------	30	6	110	10	4,540	363
King whiting or "kingfish"	--------	--------	165	6	550	20	24,220	726
Mullet	1,053	32	--------	--------	--------	--------	3,060	92
Sharks	--------	--------	--------	--------	--------	--------	300,000	1,400
Sheepshead, salt-water	--------	--------	220	30	--------	--------	9,140	457
Spanish mackerel	--------	--------	--------	--------	--------	--------	600	36
Spot	--------	--------	--------	--------	--------	--------	1,500	44
Squeteagues or "sea trout":								
Gray	--------	--------	275	12	--------	--------	4,000	120
Spotted	151	14	220	40	715	78	57,803	5,780
Crabs:								
Hard	2,880	48	24,500	350	--------	--------	975,000	16,250
Soft	--------	--------	--------	--------	--------	--------	33,720	12,645
Shrimp	3,400	340	1,500	150	6,500	650	9,715,852	291,476
Oysters:								
Market, private, spring	19,600	1,470	49,512	8,254	--------	--------	310,800	38,850
Market, private, fall	24,400	1,830	86,004	14,334	--------	--------	413,496	51,687
Terrapin, diamond-back	--------	--------	--------	--------	--------	--------	38,750	12,980
Turtles, loggerhead	--------	--------	--------	--------	--------	--------	50,050	1,502
Total	53,084	3,862	163,168	23,246	9,030	820	11,991,381	437,723

Fisheries of Louisiana, 1930—Continued

CATCH: By parishes—Continued

Species	LaFourche		Orleans		Plaquemines		St. Bernard	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Catfish and bullheads			14, 400	$432	10, 430	$312	10, 300	$309
Croaker	220	$6	15, 500	1, 045	5, 208	385	26, 944	2, 152
Drum:								
Black	13, 200	360	9, 860	394	24, 400	976	84, 020	3, 360
Red or redfish	53, 900	3, 920	24, 150	1, 932	28, 304	2, 265	54, 172	4, 332
Flounders	4, 400	320	780	78	2, 544	254	3, 804	382
Groupers			3, 500	105				
Jewfish			6, 000	180				
King whiting or "kingfish"			2, 500	75	3, 200	96	16, 404	491
Mullet							1, 200	48
Pompano			420	126			252	75
Sheepshead, salt-water	22, 052	1, 003	10, 050	603	12, 656	759	28, 028	1, 691
Snapper, red			76, 400	6, 112				
Spanish mackerel							1, 200	72
Spot			900	27	2, 600	78	4, 704	141
Squeteagues or "sea trout":								
Gray	3, 300	90	4, 200	126	32, 600	978	265, 000	7, 948
Spotted	20, 511	1, 908	7, 882	1, 019	36, 704	4, 405	186, 392	23, 984
Tripletail	2, 255	205			2, 496	150		
Crabs:								
Hard	391, 200	6, 520	46, 800	936	150, 000	2, 500	853, 680	14, 228
Soft			8, 520	4, 260	4, 960	1, 860	94, 132	37, 653
Shrimp	11, 082, 026	332, 060	1, 414, 332	42, 430	5, 505, 043	165, 150	1, 132, 000	33, 960
Oysters:								
Market, public, spring			266, 664	11, 111				
Market, public, fall			165, 888	8, 294				
Market, private, spring	214, 200	22, 200	4, 980	622	256, 080	41, 360		
Market, private, fall	297, 280	28, 260	361, 440	45, 180	489, 848	71, 749		
Total	12, 104, 544	396, 852	2, 445, 166	125, 087	6, 567, 073	293, 277	2, 762, 232	130, 826

Species	St. Charles		St. Mary		St. Tammany		Terrebonne		Vermilion	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Catfish and bullheads							48, 213	$1, 822	2, 200	$150
Crevalle									165	15
Croaker			1, 210	$44			6, 016	224	2, 750	290
Drum:										
Black			1, 320	96			24, 344	933	770	68
Red or redfish							131, 306	9, 860	4, 840	592
Flounders			50	8			6, 479	612	330	50
Garfish									1, 320	120
King whiting or "kingfish"							6, 338	230	990	60
Mullet							3, 549	129	110	10
Pompano							440	100		
Sheepshead, salt-water			880	80			15, 248	970	3, 850	400
Squeteagues or "sea trout":										
Gray			2, 640	120			11, 314	415		
Spotted			1, 320	240			70, 563	7, 708	4, 840	688
Tripletail									550	100
Crabs:										
Hard			1, 570, 730	19, 469	94, 200	$1, 884	5, 005	72	72, 000	1, 200
Soft					4, 400	1, 650				
Shrimp	16, 000	$12, 480	1, 711, 910	49, 560			7, 591, 924	227, 758	84, 000	3, 612
Oysters:										
Market, public, spring					4, 800	640				
Market, public, fall			98, 800	7, 156	96, 504	5, 956			45, 476	3, 534
Market, private, spring			85, 704	13, 214			855, 156	75, 462	1, 800	225
Market, private, fall			111, 072	17, 337			582, 576	80, 751	4, 220	570
Total	16, 000	12, 480	3, 585, 636	107, 324	199, 904	10, 130	9, 358, 471	407, 046	230, 211	11, 684

Industries related to the fisheries of Louisiana, 1930

TRANSPORTING

Item	Iberia Parish	Jefferson Parish	La Fourche Parish	Orleans Parish	Plaquemines Parish	St. Mary Parish	St. Tammany Parish	Terrebonne Parish	Vermilion Parish	Total
Persons engaged:	*No.*	*No.*	*No.*	*No.*	*No.*	*No.*	*No.*	*No.*	*No.*	*No.*
On vessels	-------	14	44	13	4	16	-------	42	-------	133
On boats	14	34	34	-------	2	14	4	138	6	246
Total	14	48	78	13	6	30	4	180	6	379
Vessels, motor:										
5 to 10 tons	-------	6	17	2	2	4	-------	21	-------	52
11 to 20 tons	-------	1	4	4	-------	4	-------	-------	-------	13
Total	-------	7	21	6	2	8	-------	21	-------	65
Net tonnage	-------	58	169	73	13	76	-------	136	-------	525
Boats	7	17	17	-------	1	7	2	74	3	128

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Calcasieu, Jefferson Davis, and Vermilion Parishes	Iberia Parish	Jefferson Parish	Lafayette and St. Martin Parishes	La Fourche Parish	Orleans Parish
Establishments	5	3	16	3	7	10
Persons engaged:						
Proprietors	8	4	16	3	9	19
Salaried employees	1	----------	13	----------	5	32
Wage earners—						
Average for season	100	4	669	8	731	148
Average for year	18	4	310	6	254	84
Paid to salaried employees	$100	----------	$32, 617	----------	$13, 672	$132, 611
Paid to wage earners	6, 257	$2, 251	93, 699	$3, 498	82, 676	49, 030
Total salaries and wages	6, 357	2, 251	126, 316	3, 498	96, 348	181, 641

Item	Plaquemines and St. Bernard Parishes	St. Charles Parish	St. Mary Parish	Terrebonne Parish	Total
Establishments	9	3	10	36	102
Persons engaged:					
Proprietors	2	6	11	55	133
Salaried employees	9	----------	16	24	100
Wage earners—					
Average for season	849	6	315	991	3, 821
Average for year	344	6	249	508	1, 783
Paid to salaried employees	$13, 100	----------	$41, 250	$59, 320	$292, 670
Paid to wage earners	97, 452	$1, 814	141, 453	168, 068	646, 198
Total salaries and wages	110, 552	1, 814	182, 703	227, 388	938, 868

Industries related to the fisheries of Louisiana, 1930—Continued

WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Squeteague, sun-dried ... pounds	27,717	$8,316
Crab meat, packaged (fresh-cooked) ... do	190,220	46,780
Shrimp:		
Sun-dried ... do	1,588,487	339,577
Canned—		
Wet in tins ... standard cases	238,467	1,346,205
Wet in glass ... do	2,462	26,865
Dry in tins ... do	167,939	1,080,890
Meal ... tons	1,445	39,357
Oysters:		
Fresh-shucked ... gallons	242,712	413,350
Canned ... standard cases	43,819	214,819
Shell products—		
Poultry feed ... tons	116,880	1,012,767
Lime ... do	9,347	28,997
Miscellaneous [1]	(²)	60,410
Total		4,618,333

[1] Includes shark skins, fins, meat, and oil; canned crabs; and fresh-packaged shrimp.
[2] Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 242 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

TEXAS

Fisheries of Texas, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets			Trammel nets	Lines	
		Anchor	Stake	Run-around		Hand	Troll
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:							
On vessels					6	110	
On boats and shore—							
Regular	76	4	277	108	140	193	4
Casual	78					156	
Total	154	4	277	108	146	459	4
Vessels, motor:							
5 to 10 tons						4	
11 to 20 tons					1	7	
21 to 30 tons						2	
31 to 40 tons						1	
41 to 50 tons						2	
Total					1	16	
Net tonnage					11	298	
Boats:							
Motor	6	2	47	28	54	82	3
Other	6		72	22	45	423	
Apparatus:							
Number	63	2	383	102	80	459	8
Length, yards	11,250						
Square yards		2,000	95,294	23,854	26,651		
Hooks, baits, or snoods						678	8

Fisheries of Texas, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Lines—Contd.		Otter trawls, shrimp	Spears	Dredges, oyster	Tongs	By hand	Total, exclusive of duplication
	Trot, with baits or snoods	Trot, with hooks						
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:								
On vessels	------	------	84	------	18	------	------	178
On boats and shore—								
Regular	12	24	464	88	106	316	112	1, 421
Casual	6	------	------	87	------	14	68	367
Total	18	24	548	175	124	330	180	1, 966
Vessels, motor:								
5 to 10 tons	------	------	26	------	4	------	------	27
11 to 20 tons	------	------	6	------	1	------	------	12
21 to 30 tons	------	------	------	------	------	------	------	2
31 to 40 tons	------	------	------	------	------	------	------	1
41 to 50 tons	------	------	------	------	------	------	------	2
Total	------	------	32	------	5	------	------	44
Net tonnage	------	------	275	------	50	------	------	535
Boats:								
Motor	2	5	232	3	33	61	------	431
Other	14	17	------	------	------	219	122	498
Apparatus:								
Number	33	36	264	175	38	330	------	------
Yards at mouth	------	------	3, 855	------	37	------	------	------
Hooks, baits, or snoods	4, 300	5, 500	------	------	------	------	------	------

CATCH: BY GEAR

Species	Haul seines		Gill nets					
			Anchor		Stake		Runaround	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	------	------	------	------	------	------	165	$14
Catfish and bullheads	29, 700	$1, 350	550	$30	12, 024	$497	4, 620	208
Crevalle	------	------	------	------	------	------	154	4
Croaker	12, 980	434	------	------	1, 540	42	7, 680	272
Drum:								
Black	46, 200	1, 698	660	30	762, 225	23, 286	158, 215	5, 753
Red or redfish	77, 154	6, 010	2, 860	260	324, 856	28, 127	57, 117	4, 184
Flounders	8, 855	805	------	------	550	50	2, 860	260
King whiting or "kingfish"	7, 920	288	------	------	------	------	4, 180	152
Mullet	3, 630	132	------	------	3, 741	75	550	25
Pompano	6, 270	1, 425	------	------	------	------	1, 375	313
Sheepshead	7, 370	327	220	16	7, 051	300	3, 300	160
Snook or sergeantfish	15, 840	1, 142	------	------	19, 081	1, 388	3, 300	186
Spadefish	550	20	------	------	------	------	------	------
Spanish mackerel	2, 420	132	------	------	------	------	6, 600	360
Squeteague or "sea trout," spotted	116, 170	11, 873	2, 200	300	302, 252	32, 974	109, 742	10, 252
Total	335, 059	25, 636	6, 490	636	1, 433, 320	86, 739	359, 858	22, 143

Fisheries of Texas, 1930—Continued

CATCH: BY GEAR—Continued

Species	Trammel nets		Lines							
			Hand		Troll		Trot, with baits or snoods		Trot, with hooks	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads	11,924	$550	22,584	$1,027					16,170	$718
Croaker	9,713	347								
Drum:										
Black	63,496	2,127	21,172	762						
Red or redfish	169,672	14,963	210,358	16,678					30,580	2,224
Flounders	1,035	97	1,100	100						
Groupers			20,855	630						
Jewfish			1,430	56						
Kingfish or "king mackerel"					3,080	$120				
King whiting or "kingfish"	3,630	132								
Pompano	5,365	1,225								
Sheepshead	6,710	340	16,610	726					440	24
Snapper, red			929,578	75,385						
Snook or sergeantfish	1,225	100								
Spanish mackerel	1,799	142	63,470	3,542						
Squeteague or "sea trout," spotted	236,149	26,272	276,840	29,649						
Crabs, hard							29,046	$1,063		
Total	510,718	46,295	1,563,997	128,555	3,080	120	29,046	1,063	47,190	2,966

Species	Otter trawls, shrimp		Spears		Dredges, oyster		Tongs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders			56,987	$5,771						
Sheepshead			550	40						
Shrimp	10,189,318	$377,016								
Oysters:										
Market, public, spring					267,466	$15,029	209,854	$17,523	38,432	$3,336
Market, public, fall					219,463	14,657	330,052	23,510	84,304	5,229
Market, private, spring							3,040	475		
Market, private, fall							4,704	735		
Total	10,189,318	377,016	57,447	5,811	486,929	29,686	547,650	42,243	122,736	8,565

OPERATING UNITS: BY COUNTIES

Item	Aransas	Brazoria	Calhoun	Cameron	Galveston	Harris
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	2		26		114	
On boats and shore—						
Regular	118	8	212	206	289	6
Casual	16		58	20	117	
Total	136	8	296	226	520	6
Vessels, motor:						
5 to 10 tons	1		6		7	
11 to 20 tons			2		8	
21 to 30 tons					2	
31 to 40 tons					1	
41 to 50 tons					2	
Total	1		8		20	
Net tonnage	7		70		337	

Fisheries of Texas, 1930—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Aransas	Brazoria	Calhoun	Cameron	Galveston	Harris
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Boats:						
Motor	31	1	79	28	116	2
Other	46	5	40	44	117	3
Apparatus:						
Haul seines			2		45	
Length, yards			120		8, 990	
Gill nets—						
Stake	58		10	186		
Square yards	9, 280		1, 000	62, 124		
Runaround	12					
Square yards	1, 940					
Trammel nets	11	1	18	14	13	
Square yards	1, 430	450	9, 561	3, 500	4, 458	
Lines—						
Hand	26		62	22	188	
Hooks	26		62	34	385	
Trot, with baits or snoods	9				20	
Baits or snoods	900				3, 000	
Trot, with hooks	20					
Hooks	3, 800					
Otter trawls, shrimp	13		60	8	80	
Yards at mouth	173		878	103	1, 203	
Spears	22		36	9	28	
Dredges, oysters	2		14		8	
Yards at mouth	2		15		7	
Tongs	31	8	88		91	6

Item	Jefferson	Matagorda	Neuces	Refugio	San Patricio
	Number	*Number*	*Number*	*Number*	*Number*
Fishermen:					
On vessels		6	20		10
On boats and shore—					
Regular		127	354	2	99
Casual	4	15	89	6	42
Total	4	148	463	8	151
Vessels, motor:					
5 to 10 tons		1	7		5
11 to 20 tons		1	1		
Total		2	8		5
Net tonnage		25	61		35
Boats:					
Motor		44	88		42
Other	4	20	188	8	23
Apparatus:					
Haul seines			16		
Length, yards			2, 140		
Gill nets—					
Anchor		2			
Square yards		2, 000			
Stake			129		
Square yards			22, 890		
Runaround			54		36
Square yards			11, 900		10, 014
Trammel nets		10	9		4
Square yards		4, 252	1, 800		1, 200
Lines—					
Hand	4		113	6	38
Hooks	4		123	6	38
Troll			4		4
Hooks			4		4
Trot, with baits or snoods	4				
Baits or snoods	400				
Trot, with hooks			6	4	6
Hooks			800	250	650
Otter trawls, shrimp		26	40		37
Yards at mouth		391	563		544
Spears		25	25		30
Dredges, oysters		14			
Yards at mouth		13			
Tongs		40	64	2	

Fisheries of Texas, 1930—Continued

CATCH: BY COUNTIES

Species	Aransas		Brazoria		Calhoun	
	Pounds	Value	Pounds	Value	Pounds	Value
Catfish and bullheads	5, 005	$228	220	$10	10, 558	$480
Croaker	2, 970	108	220	8	1, 980	72
Drum:						
Black	26, 500	1, 000	132	5	9, 760	355
Red or redfish	59, 051	4, 295	3, 300	300	263, 064	22, 881
Flounders	3, 960	360	55	5	6, 957	633
King whiting or "kingfish"	2, 530	92	110	4	1, 650	60
Pompano	690	162			220	50
Sheepshead	1, 320	72	220	12	1, 870	68
Snook or sergeantfish	840	48			825	76
Spanish mackerel	1, 650	90			990	54
Squeteague or "sea trout," spotted	73, 150	7, 980	3, 080	336	254, 859	27, 954
Crabs, hard	13, 486	674				
Shrimp	633, 804	24, 200			1, 216, 139	48, 646
Oysters:						
Market, public, spring	18, 608	1, 223	3, 200	300	81, 700	5, 317
Market, public, fall	41, 809	2, 770	3, 792	356	193, 542	13, 476
Total	885, 373	43, 302	14, 329	1, 336	2, 044, 114	120, 112

Species	Cameron		Galveston		Harris		Jefferson	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Catfish and bullheads	6, 524	$237	12, 620	$575				
Croaker	4, 103	149	9, 900	360				
Drum:								
Black	518, 956	14, 153	5, 216	237			150	$8
Red or redfish	225, 580	20, 507	56, 144	5, 104			880	80
Flounders	440	40	8, 360	1, 065				
Groupers			18, 250	543				
Jewfish			660	18				
King whiting or "kingfish			4, 840	176				
Mullet	3, 741	75	3, 630	132				
Pompano	935	213	1, 320	300				
Sheepshead	6, 831	248	9, 020	517			110	6
Snapper, red	72, 442	7, 244	823, 432	65, 713				
Snook or sergeantfish	19, 081	1, 388	440	22				
Spadefish			550	20				
Spanish mackerel	809	88	4, 620	252				
Squeteague or "sea trout," spotted	234, 700	25, 604	122, 177	14, 090			1, 265	172
Crabs, hard			13, 160	329			2, 400	60
Shrimp	213, 448	7, 485	3, 552, 960	125, 702				
Oysters:								
Market, public, spring	2, 400	400	211, 288	11, 651	3, 040	$285		
Market, public, fall	3, 360	420	75, 340	7, 073	3, 520	330		
Market, private, spring			3, 040	475				
Market, private, fall			4, 704	735				
Total	1, 313, 350	78, 251	4, 941, 671	235, 089	6, 560	615	4, 805	326

Species	Matagorda		Neuces		Refugio		San Patricio	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bluefish			165	$14				
Catfish and bullheads	4, 180	$212	53, 900	2, 450	2, 365	$108	2, 200	$80
Crevalle			154	4				
Croaker	1, 650	60	7, 240	198			3, 850	140
Drum:								
Black	5, 390	230	466, 064	16, 948			19, 800	720
Red or redfish	13, 585	1, 235	199, 293	14, 194	8, 800	640	42, 900	3, 210
Flounders	7, 965	1, 020	38, 060	3, 460			5, 500	500
Groupers			2, 605	87				
Jewfish			220	8			550	30
Kingfish or "king mackerel"			880	40			2, 200	80
King whiting or "kingfish"	2, 750	100	2, 200	80			1, 650	60
Mullet							550	25
Pompano	220	50	8, 580	1, 950			1, 045	238
Sheepshead	1, 540	104	18, 260	756	440	24	2, 640	126
Snapper, red			33, 704	2, 428				
Snook or sergeantfish			15, 400	1, 120			2, 860	162
Spanish mackerel	220	12	63, 800	3, 480			2, 200	200
Squeteague or "sea trout," spotted	22, 858	2, 914	218, 239	20, 848	7, 370	804	105, 655	10, 618
Shrimp	756, 879	26, 737	1, 917, 544	73, 628			1, 898, 544	70, 618
Oysters:								
Market, public, spring	129, 212	11, 210	65, 664	5, 472	640	40		
Market, public, fall	157. 560	9, 790	153, 888	9, 118	1, 008	63		
Total	1, 104, 009	53, 674	3, 265, 860	156, 283	20, 623	1, 679	2, 092, 144	86, 807

Industries related to the fisheries of Texas, 1930

TRANSPORTING IN MATAGORDA COUNTY

Persons engaged on vessels	3
Vessels	1
Net tonnage	6

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Aransas County	Calhoun County	Cameron County	Galveston and Brazoria Counties	Matagorda County	Nueces County	San Patricio County	Total
Establishments	4	11	6	13	7	10	4	55
Persons engaged:								
Proprietors	4	12	5	19	9	12	5	66
Salaried employees	4	6	6	6	3	8	2	35
Wage earners—								
Average for season	31	238	163	297	208	197	236	1, 370
Average for year	16	90	87	179	91	95	169	727
Paid to salaried employees	$4, 620	$7, 080	$7, 870	$25, 536	$3, 320	$8, 270	$4, 890	$61, 586
Paid to wage earners	9, 725	24, 707	16, 548	55, 850	33, 984	33, 533	28, 243	202, 590
Total salaries and wages	14, 345	31, 787	24, 418	81, 386	37, 304	41, 803	33, 133	264, 176

PRODUCTS MANUFACTURED

Item	Quantity	Value
Shrimp:		
Packaged, headless—		
Fresh pounds	112, 000	$17, 000
Frozen do	1, 485, 387	266, 878
Canned—		
Wet in tins standard cases	45, 788	276, 828
Wet in glass do	12, 092	131, 370
Dry in tins do	9, 151	55, 426
Oysters, fresh-shucked gallons	75, 416	106, 801
Miscellaneous [1]	(²)	31, 952
Total		886, 255

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 210]

Crab meat, packaged (fresh-cooked) pounds	577	$144
Shrimp, fresh headless, packaged do	54, 855	3, 840
Oysters, fresh-shucked gallons	34, 169	38, 391
Total		42, 375

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[1] Includes fresh-cooked crab meat; sun-dried shrimp; shrimp bran; cooked shrimp, canned oysters; and oyster-shell products.

[2] Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 196 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

FISHERIES OF THE PACIFIC COAST STATES [10]

The yield of fishery products in the Pacific Coast States (Washington, Oregon, and California) during 1930 amounted to 833,388,643 pounds, valued at $23,064,140. This is a decrease of 19 per cent in the volume of the catch and 8 per cent in the value of the catch as compared with the quantity and its value for 1929. Of the total catch in 1930, 806,753,999 pounds, valued at $21,302,721, were fish; 22,790,435 pounds, valued at $1,594,466, were shellfish and miscellaneous products; and 3,844,209 pounds, valued at $166,953, were whale products. These fisheries gave employment to 19,574 fishermen or 2 per cent less than in 1929. Of the total number of fishermen employed during 1930, 6,165 were employed on vessels and 13,409 in the boat and shore fisheries.

Fisheries of the Pacific Coast States, 1930

SUMMARY OF CATCH

Product	Washington		Oregon	
	Pounds	Value	Pounds	Value
Fish	106, 171, 839	$7, 678, 561	25, 484, 812	$2, 180, 428
Shellfish, etc	3, 866, 922	656, 212	973, 949	75, 860
Total	110, 038, 761	8, 334, 773	26, 458, 761	2, 256, 288

Product	California		Total	
	Pounds	Value	Pounds	Value
Fish	675, 097, 348	$11, 443, 732	806, 753, 999	$21, 302, 721
Shellfish, etc	17, 949, 564	862, 394	22, 790, 435	1, 594, 466
Whale products	3, 844, 209	166, 953	3, 844, 209	166, 953
Total	696, 891, 121	12, 473, 079	833, 388, 643	23, 064, 140

OPERATING UNITS: BY STATES

Item	Washington				Oregon		
	Puget Sound district	Coastal district	Columbia River district	Total	Columbia River district	Coastal district	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	2, 265	14	12	2, 291	66	16	82
On boats and shore	1, 952	2, 786	1, 747	6, 485	2, 456	1, 345	3, 801
Total	4, 217	2, 800	1, 759	8, 776	2, 522	1, 361	3, 883
Vessels:							
Steam	2	----------	----------	2	----------	----------	----------
Net tonnage	29	----------	----------	29	----------	----------	----------
Motor	338	7	6	351	28	7	35
Net tonnage	6, 817	56	53	6, 926	282	63	345
Sail	4	----------	----------	4	----------	----------	----------
Net tonnage	1, 418	----------	----------	1, 418	----------	----------	----------
Total vessels	344	7	6	357	28	7	35
Total net tonnage	8, 264	56	53	8, 373	282	63	345

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[10] With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith. Data on the operating units and catch of the fisheries of the Pacific Coast States have been taken largely from statistics collected by the various State agencies. Supplementary surveys, compilations, and analyses have been made by agents of this bureau in order that the figures may be presented in a manner comparable with those of other sections.

Fisheries of the Pacific Coast States, 1930—Continued

OPERATING UNITS: BY STATES—Continued

Item	Washington				Oregon		
	Puget Sound district	Coastal district	Columbia River district	Total	Columbia River district	Coastal district	Total
Boats:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Motor	1, 068	301	890	2, 259	1, 315	863	2, 178
Other	496	234	231	961	86	187	273
Apparatus:							
Purse seines—							
Salmon	197	--------	--------	197	--------	--------	--------
Length, yards	122, 140	--------	--------	122, 140	--------	--------	--------
Haul seines	92	--------	57	149	41	2	43
Length, yards	8, 644	--------	16, 044	24, 688	23, 273	866	24, 139
Gill nets—							
Drift—							
Salmon	377	106	543	1, 026	921	479	1, 400
Square yards	644, 670	199, 192	1, 292, 883	2, 136, 745	2, 910, 360	602, 920	3, 513, 280
Set—							
Salmon	19	271	271	561	183	941	1, 124
Square yards	6, 726	91, 320	66, 124	164, 170	47, 580	151, 181	198, 761
Lines—							
Trawl, set, and hand	21, 906	13	55	21, 974	392	95	487
Hooks	476, 490	1, 300	5, 500	483, 290	39, 200	9, 500	48, 700
Troll	2, 156	64	724	2, 944	1, 201	517	1, 718
Hooks	9, 720	224	3, 258	13, 202	5, 400	2, 326	7, 726
Pound nets	123	100	381	604	61	--------	61
Brush weirs	5	--------	--------	5	--------	--------	--------
Fish wheels	--------	--------	39	39	--------	--------	--------
Dip nets	9	30	122	161	184	--------	184
Drag bag nets	51	2	--------	53	--------	--------	--------
Length, yards	4, 261	120	--------	4, 381	--------	--------	--------
Reef nets	2	--------	--------	2	--------	--------	--------
Beam trawls	33	--------	--------	33	--------	--------	--------
Yards at mouth	226	--------	--------	226	--------	--------	--------
Traps—							
Crab	2, 369	4, 095	--------	6, 464	--------	6, 690	6, 690
Crawfish	--------	--------	--------	--------	986	--------	986
Tongs and rakes	183	27	--------	210	--------	2	2
Shovels	228	2, 664	--------	2, 892	--------	246	246
Spears	--------	14	--------	14	--------	--------	--------

Item	California						Grand total
	Northern district	San Francisco district	Monterey district	Southern district		Total	
				San Pedro division	San Diego division		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	24	345	557	2, 025	841	3, 792	6, 165
On boats and shore	552	997	632	732	210	3, 123	13, 409
Total	576	1, 342	1, 189	2, 757	1, 051	6, 915	19, 574
Vessels:							
Steam	--------	4	--------	--------	--------	4	6
Net tonnage	--------	153	--------	--------	--------	153	182
Motor	10	30	52	254	117	463	849
Net tonnage	73	408	904	7, 707	5, 246	14, 338	21, 609
Sail	--------	4	--------	--------	--------	4	8
Net tonnage	--------	1, 722	--------	--------	--------	1, 722	3, 140
Total vessels	10	38	52	254	117	471	863
Total net tonnage	73	2, 283	904	7, 707	5, 246	16, 213	24, 931
Boats:							
Motor	206	538	237	405	119	1, 505	5, 942
Other	212	89	35	41	3	380	1, 614

Fisheries of the Pacific Coast States, 1930—Continued

OPERATING UNITS: BY STATES—Continued

Item	California						Grand total
	Northern district	San Francisco district	Monterey district	Southern district		Total	
				San Pedro division	San Diego division		
Apparatus:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Purse seines—							
Barracuda				33		33	33
Length, yards				14, 228		14, 228	14, 228
Salmon							197
Length, yards							122, 140
Sardine			5	78		83	83
Length, yards			2, 050	31, 747		33, 797	33, 797
Tuna				82		82	82
Length, yards				46, 625		46, 625	46, 625
Lampara nets—							
Sardine		19	62	39	17	137	137
Length, yards		4, 080	20, 756	17, 106	4, 790	46, 732	46, 732
Squid			52			52	52
Length, yards			10, 220			10, 220	10, 220
Other				52		52	52
Length, yards				21, 152		21, 152	21, 152
Haul seines	18	1		1		20	212
Length, yards	2, 685	100		100		2, 885	51, 712
Gill nets—							
Drift—							
Barracuda				38	19	57	57
Square yards				330, 904	94, 804	425, 708	425, 708
Salmon	166	197				363	2, 789
Square yards	158, 253	634, 088				792, 341	6, 442, 366
Sea bass		17	23			40	40
Square yards		38, 070	45, 322			83, 392	83, 392
Shad		133				133	133
Square yards		441, 226				441, 226	441, 226
Striped bass		160				160	160
Square yards		434, 720				434, 720	434, 720
Set—							
Salmon							1, 685
Square yards							362, 931
Sea bass				37	22	59	59
Square yards				152, 625	120, 450	273, 075	273, 075
Miscellaneous—							
Other	12	64	61	37	11	185	185
Square yards	8, 862	108, 177	83, 390	30, 905	6, 826	238, 160	238, 160
Trammel nets			8	35	18	61	61
Square yards			12, 480	255, 500	247, 572	515, 552	515, 552
Lines—							
Trawl, set, and hand	369	619	1, 954	1, 450	735	5, 127	27, 588
Hooks	57, 907	55, 843	140, 631	255, 987	115, 690	626, 058	1, 158, 048
Troll	857	936	1, 214	2, 215	1, 545	6, 767	11, 429
Hooks	4, 040	4, 780	4, 977	2, 215	1, 545	17, 557	38, 485
Pound nets							665
Brush weirs							5
Fish wheels							39
Fyke nets		2, 102				2, 102	2, 102
Dip nets	42					42	387
Bag nets, shrimp		16				16	16
Length, yards		8, 996				8, 996	8, 996
Drag bag nets							53
Length, yards							4, 381
Reef nets							2
Paranzella nets	1	10	1	4		16	16
Yards at mouth	17	170	17	67		271	271
Beam trawls		22				22	55
Yards at mouth		147				147	373
Traps—							
Crab	408	4, 086				4, 494	17, 648
Crawfish							986
Lobster				2, 805	1, 572	4, 377	4, 377
Octopus	10		141			151	151
Harpoons—							
Swordfish and turtle				22	24	46	46
Whale		4				4	4
Tongs and rakes		22	1			23	235
Shovels	9	28	8	61		106	3, 244
Abalone outfits			12	1		13	13
Spears							14

Fisheries of the Pacific Coast States, 1930—Continued

CATCH: BY STATES

Species	Washington		Oregon	
	Pounds	Value	Pounds	Value
FISH				
Carp	214, 729	$6, 441		
Cod [2]	9, 977, 023	151, 190		
Dolly Varden trout	2, 348	185		
Flounders:				
"Sole"	271, 575	10, 320	7, 723	$257
Other	92, 161	2, 673	37, 722	1, 220
Grayfish	371, 180	1, 309		
Hake			265	3
Halibut	12, 688, 277	1, 534, 627	412, 644	47, 483
Herring	489, 092	2, 877	138, 756	2, 408
"Lingcod"	1, 022, 303	38, 562	187, 510	4, 595
Perch	59, 853	2, 439	42, 405	945
Rockfishes	637, 082	23, 926	118, 688	3, 422
Sablefish	2, 780, 448	127, 790	190, 269	6, 209
Salmon	72, 746, 074	5, 526, 245	20, 865, 628	1, 925, 337
Shad	531, 815	10, 636	1, 311, 845	26, 240
Skates	1, 170	28		
Smelt	2, 140, 055	58, 248	194, 172	4, 219
Steelhead trout	2, 073, 990	178, 243	1, 879, 573	152, 519
Striped bass			15, 664	1, 942
Sturgeon	63, 194	2, 627	78, 782	3, 389
Tuna and tunalike fishes, albacore			3, 166	240
Other fish	9, 470	195		
Total	106, 171, 839	7, 678, 561	25, 484, 812	2, 180, 428
SHELLFISH, ETC.				
Crabs	1, 822, 438	115, 288	725, 532	44, 106
Crawfish			176, 800	17, 680
Shrimp	88, 149	6, 699		
Clams:				
Hard	514, 748	38, 599		
Razor	799, 516	152, 130	38, 372	7, 197
Soft			25, 068	1, 567
Octopus	86, 413	4, 148		
Oysters:				
Eastern, market	1, 970	1, 851		
Japanese, market	228, 318	82, 875		
Native, market	302, 659	250, 502	8, 177	5, 310
Scallops	11, 583	3, 564		
Squid	11, 128	556		
Total	3, 866, 922	656, 212	973, 949	75, 860
Grand total	110, 038, 761	8, 334, 773	26, 458, 761	2, 256, 288

Species	California [1]		Total	
	Pounds	Value	Pounds	Value
FISH				
Anchovies	319, 561	$4, 214	319, 561	$4, 214
Barracuda	4, 763, 766	379, 122	4, 763, 766	379, 122
Cabrilla	509, 539	27, 090	509, 539	27, 090
Carp	69, 387	1, 490	284, 116	7, 931
Catfish	433, 191	58, 228	433, 191	58, 228
Cod [2]	9, 259, 119	150, 928	19, 236, 142	302, 118
Dolly Varden trout			2, 348	185
Eels	20	2	20	2
Flounders:				
"California halibut"	1, 066, 641	128, 930	1, 066, 641	128, 930
"Sole"	10, 919, 053	659, 840	11, 198, 351	670, 417
Other	1, 019, 876	42, 768	1, 149, 759	46, 661
Flyingfish	48, 458	1, 805	48, 458	1, 805
Grayfish	647, 297	11, 671	1, 018, 477	12, 980
Hake	56, 088	561	56, 353	564
Halfmoon	36, 765	2, 720	36, 765	2, 720
Halibut	445, 077	49, 474	13, 545, 998	1, 631, 584
Hardhead	38, 857	5, 257	38, 857	5, 257
Herring	748, 948	7, 707	1, 376, 796	12, 992

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[1] Taken off Pacific coast, including Latin America.

[2] The cod were taken off Alaska.

Fisheries of the Pacific Coast States, 1930—Continued

CATCH: BY STATES—Continued

Species	California		Total	
	Pounds	Value	Pounds	Value
FISH—continued				
Horse mackerel	368, 828	$11, 142	368, 828	$11, 142
Kingfish	457, 158	11, 143	457, 158	11, 143
"Lingcod"	1, 293, 643	54, 909	2, 503, 456	98, 066
Mackerel	16, 531, 364	241, 569	16, 531, 364	241, 569
Mullet	21, 307	1, 950	21, 307	1, 950
Perch	268, 337	11, 201	370, 595	14, 585
Pilchard or sardines	494, 450, 747	2, 377, 432	449, 450, 747	2, 377, 432
Pompano	2, 223	1, 113	2, 223	1, 113
Rock bass	508, 163	32, 417	508, 163	32, 417
Rockfishes	7, 213, 354	281, 154	7, 969, 124	308, 502
Sablefish	1, 361, 494	47, 579	4, 332, 211	181, 578
Salmon	6, 002, 894	528, 765	99, 614, 596	7, 980, 347
Sculpin	89, 656	9, 017	89, 656	9, 017
Sea bass:				
Black	394, 009	19, 878	394, 009	19, 878
White or squeteague	1, 626, 422	144, 482	1, 626, 422	144, 482
Shad	1, 199, 459	45, 314	3, 043, 119	82, 190
Sheepshead	243, 689	9, 035	243, 689	9, 035
Skates	286, 390	5, 753	287, 560	5, 781
Smelt	1, 057, 680	54, 262	3, 391, 907	116, 729
Spanish mackerel	42, 965	2, 041	42, 965	2, 041
Splittail	18, 528	555	18, 528	555
Squawfish	5, 207	300	5, 207	300
Steelhead trout			3, 953, 563	330, 762
Striped bass	866, 808	90, 387	882, 472	92, 329
Sturgeon			141, 976	6, 016
Suckers	1, 990	100	1, 990	100
Swordfish	562, 729	75, 495	562, 729	75, 495
Tomcod	23, 172	926	23, 172	926
Tuna and tunalike fishes:				
Albacore	283, 117	23, 651	286, 283	23, 891
Bluefin	21, 921, 282	1, 238, 017	21, 921, 282	1, 238, 017
Bonito	5, 164, 260	166, 566	5, 164, 260	166, 566
Skipjack or striped tuna	20, 485, 587	789, 836	20, 485, 587	789, 836
Yellowfin	56, 654, 181	3, 396, 217	56, 654, 181	3, 396, 217
Whitebait	179, 438	11, 927	179, 438	11, 927
Whitefish	225, 102	12, 960	225, 102	12, 960
Yellowtail	4, 770, 428	209, 776	4, 770, 428	209, 776
Other fish	134, 094	5, 056	143, 564	5, 251
Total	675, 097, 348	11, 443, 732	806, 753, 999	21, 302, 721
SHELLFISH, ETC.				
Crabs	1, 992, 396	239, 886	4, 540, 366	399, 280
Crawfish			176, 800	17, 680
Sea crawfish or spiny lobster	1, 394, 139	263, 145	1, 394, 139	263, 145
Shrimp	2, 696, 567	42, 272	2, 784, 716	48, 971
Abalone	647, 316	130, 331	647, 316	130, 331
Clams:				
Cockle	30, 051	9, 659	30, 051	9, 659
Hard			514, 748	38, 599
Pismo	21, 772	9, 610	21, 772	9, 610
Razor			837, 888	159, 327
Soft	37, 303	9, 474	62, 371	11, 041
Mixed	5, 162	1, 098	5, 162	1, 098
Mussels	33	6	33	6
Octopus	76, 980	7, 265	163, 393	11, 413
Oysters:				
Eastern, market	72, 796	29, 118	74, 766	30, 969
Japanese, market			228, 318	82, 875
Native, market	4, 949	3, 093	315, 785	258, 905
Scallops			11, 583	3, 564
Squid	10, 969, 462	117, 372	10, 980, 590	117, 928
Terrapin	58	7	58	7
Turtles	580	58	580	58
Total	17, 949, 564	862, 394	22, 790, 435	1, 594, 466
WHALE PRODUCTS				
Whale oil	3, 844, 209	166, 953	3, 844, 209	166, 953
Grand total	696, 891, 121	12, 473, 079	833, 388, 643	23, 064, 140

Industries related to the fisheries of the Pacific Coast States, 1930

Item	Washington	Oregon	California	Total
	Number	*Number*	*Number*	*Number*
Transporting:				
Persons engaged	160	48	41	249
Vessels—				
Steam			1	1
Net tonnage			33	33
Motor	64	27	7	98
Net tonnage	1, 425	286	539	2, 250
Total vessels	64	27	8	99
Total net tonnage	1, 425	286	572	2, 283
Wholesale and manufacturing:				
Establishments	104	54	151	309
Persons engaged—				
Proprietors	125	47	213	385
Salaried employees	194	73	630	897
Wage earners—				
Average for season	2, 134	734	7, 686	10, 554
Average for year	982	459	3, 639	5, 080
Salaries and wages paid	$1, 797, 902	$792, 978	$6, 046, 115	$8, 636, 995
Manufactured products [1]	$11, 150, 491	$5, 087, 826	$29, 720, 076	$45, 958, 393

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[1] These production figures are not comparable with those shown in previous bulletins since packaged fresh and frozen products are now included.

WASHINGTON

Fisheries of Washington, 1930

CATCH: BY DISTRICTS

Species	Puget Sound district		Coastal district		Columbia River district	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Carp			6, 483	$194	208, 246	$6, 247
Cod	9, 977, 023	$151, 190				
Dolly Varden trout	2, 348	185				
Flounders:						
"Sole"	271, 575	10, 320				
Other	92, 161	2, 673				
Grayfish	371, 180	1, 309				
Halibut	12, 684, 759	1, 534, 287	3, 518	340		
Herring	489, 092	2, 877				
"Lingcod"	961, 206	37, 951	61, 097	611		
Perch	58, 421	2, 396	1, 432	43		
Rockfishes	617, 112	23, 748	19, 970	178		
Sablefish	2, 780, 448	127, 790				
Salmon:						
Blueback, red or sockeye	23, 134, 160	2, 100, 949	1, 393, 838	204, 894	295, 032	50, 155
Chinook or king	11, 499, 406	1, 190, 070	1, 396, 129	126, 297	7, 080, 215	861, 104
Chum or keta	10, 120, 120	104, 340	1, 382, 844	6, 914	579, 842	2, 898
Humpback or pink	271, 705	8, 030				
Silver or coho	10, 699, 117	626, 574	2, 047, 855	90, 312	2, 845, 811	153, 708
Shad					531, 815	10, 636
Skates	1, 170	28				
Smelt	416, 999	28, 355	115, 640	5, 782	1, 607, 416	24, 111
Steelhead trout	95, 004	13, 269	108, 910	7, 187	1, 870, 076	157, 787
Sturgeon	1, 064	53	7, 470	224	54, 660	2, 350
Other fish	9, 470	195				
Total	84, 553, 540	5, 966, 589	6, 545, 186	442, 976	15, 073, 113	1, 268, 996
SHELLFISH						
Crabs	443, 278	23, 574	1, 379, 160	91, 714		
Shrimp	88, 149	6, 699				
Clams:						
Hard	507, 983	37, 759	6, 765	840		
Razor			799, 516	152, 130		
Octopus	86, 413	4, 148				
Oysters:						
Eastern, market			1, 970	1, 851		
Japanese, market	69, 646	33, 463	158, 672	49, 412		
Native, market	294, 466	244, 404	8, 193	6, 098		
Scallops	11, 583	3, 564				
Squid	11, 128	556				
Total	1, 512, 646	354, 167	2, 354, 276	302, 045		
Grand total	86, 066, 186	6, 320, 756	8, 899, 462	745, 021	15, 073, 113	1, 268, 996

Fisheries of the Puget Sound district of Washington, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines, salmon	Haul seines	Gill nets		Lines		Pound nets	Brush weirs
			Drift, salmon	Set, salmon	Trawl, set, and hand	Troll		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	1,576	10	5	--------	699	116	24	--------
On boats and shore	50	272	422	13	58	586	195	10
Total	1,626	282	427	13	757	702	219	10
Vessels:								
Motor	190	3	3	--------	104	58	8	--------
Net tonnage	4,390	17	19	--------	2,179	415	181	--------
Sail	--------	--------	--------	--------	4	--------	--------	--------
Net tonnage	--------	--------	--------	--------	1,418	--------	--------	--------
Total vessels	190	3	3	--------	108	58	8	--------
Total net tonnage	4,390	17	19	--------	3,597	415	181	--------
Boats:								
Motor	7	57	366	3	97	438	22	--------
Other	--------	51	8	10	117	--------	118	4
Apparatus:								
Number	197	92	377	19	21,906	2,156	123	5
Length, yards	122,140	8,644	--------	--------	--------	--------	--------	--------
Square yards	--------	--------	644,670	6,726	--------	--------	--------	--------
Hooks	--------	--------	--------	--------	476,490	9,720	--------	--------

Item	Dip nets	Drag bag nets	Reef nets	Beam trawls	Traps, crab	Tongs and rakes	Shovels	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	--------	--------	46	--------	--------	--------	2,265
On boats and shore	9	124	5	30	111	69	228	1,952
Total	9	124	5	76	111	69	228	4,217
Vessels:								
Steam	--------	--------	--------	2	--------	--------	--------	2
Net tonnage	--------	--------	--------	29	--------	--------	--------	29
Motor	--------	--------	--------	17	--------	--------	--------	338
Net tonnage	--------	--------	--------	204	--------	--------	--------	6,817
Sail	--------	--------	--------	--------	--------	--------	--------	4
Net tonnage	--------	--------	--------	--------	--------	--------	--------	1,418
Total vessels	--------	--------	--------	19	--------	--------	--------	344
Total net tonnage	--------	--------	--------	233	--------	--------	--------	8,264
Boats:								
Motor	--------	36	2	14	103	21	--------	1,068
Other	--------	18	2	--------	--------	174	--------	496
Apparatus:								
Number	9	51	2	33	2,369	183	228	--------
Length, yards	--------	4,261	--------	--------	--------	--------	--------	--------
Yards at mouth	--------	--------	--------	226	--------	--------	--------	--------

Fisheries of the Puget Sound district of Washington, 1930—Continued

CATCH: BY GEAR

Species	Purse seines		Haul seines		Gill nets			
					Drift		Set	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Dolly Varden trout			1,995	$160				
Flounders:								
"Sole"			8,317	316			1,078	$41
Other			11,007	319	54	$2		
Grayfish			99,500	348			5,100	18
Herring			6,075	35				
"Lingcod"			1,900	49				
Perch			44,156	1,810				
Rockfishes	16	$1	11,381	364				
Salmon:								
Blueback, red or sockeye	17,502,681	1,497,140	80,122	9,535	23,156	2,756		
Chinook or king	533,855	39,508	34,012	4,115	1,098,548	132,924		
Chum or keta	9,037,570	90,464			295,080	4,426		
Humpback or pink	232,100	6,959	835	25	2,715	73		
Silver or coho	4,896,778	275,664	29,272	2,166	521,824	38,615	1,016	75
Skates			376	11			76	2
Smelt			253,960	17,269				
Steelhead trout	702	70			25,047	3,507		
Sturgeon	168	8						
Other fish			754	16				
Total	32,203,870	1,909,814	583,662	36,538	1,966,424	182,303	7,270	136
SHELLFISH								
Octopus							1,686	81
Squid			11,128	556				
Grand total	32,203,870	1,909,814	594,790	37,094	1,966,424	182,303	8,956	217

Species	Lines				Pound nets		Brush weirs	
	Trawl, set, and hand		Troll					
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Cod	9,977,023	$151,190						
Dolly Varden trout	353	25						
Flounders:								
"Sole"	58	2			865	$33		
Other					2,425	70		
Grayfish	140,550	492						
Halibut	12,664,547	1,532,297	19,688	$1,928	524	62		
Herring	21,647	126			20,300	118	437,800	$2,579
"Lingcod"	863,958	35,314	13,001	433				
Perch	1,100	45			185	8		
Rockfishes	582,357	22,643	11,035	345				
Sablefish	2,780,448	127,790						
Salmon:								
Blueback, red or sockeye			609	65	5,525,996	591,282		
Chinook or king			5,237,543	553,979	4,595,184	459,518		
Chum or keta					786,880	9,443		
Humpback or pink			380	10	35,675	963		
Silver or coho			2,965,035	161,517	2,282,480	148,361		
Skates	18	1						
Steelhead trout					69,255	9,692		
Sturgeon					896	45		
Other fish	423	8						
Total	27,032,482	1,869,933	8,247,291	718,277	13,320,665	1,219,595	437,800	2,579
SHELLFISH								
Octopus	84,319	4,047			408	20		
Grand total	27,116,801	1,873,980	8,247,291	718,277	13,321,073	1,219,615	437,800	2,579

Fisheries of the Puget Sound district of Washington, 1930—Continued

CATCH: BY GEAR—Continued

Species	Dip nets		Drag bag nets		Reef nets		Beam trawls	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Flounders:								
"Sole"							261, 257	$9, 928
Other							78, 675	2, 282
Grayfish			2, 000	$7			124, 030	444
Herring	3, 170	$18	100	1				
"Lingcod"							82, 347	2, 155
Perch			12, 797	525			183	8
Rockfishes			53	2			12, 270	393
Salmon:								
Blueback, red or sockeye					1, 596	$171		
Chinook or king					264	26		
Chum or keta					590	7		
Silver or coho					2, 712	176		
Skates							700	14
Smelt	481	32	162, 558	11, 054				
Other fish	225	5	3, 953	80			4, 115	86
Total	3, 876	55	181, 461	11, 669	5, 162	380	563, 577	15, 310
SHELLFISH								
Shrimp							88, 149	6, 699
Scallops							11, 583	3, 564
Total							99, 732	10, 263
Grand total	3, 876	55	181, 461	11, 669	5, 162	380	663, 309	25, 573

Species	Traps		Tongs and rakes		Shovels	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH						
Crabs	443, 278	$23, 574				
Clams, hard					507, 983	$37, 759
Oysters:						
Japanese, market			69, 646	$33, 463		
Native, market			294, 466	244, 404		
Total	443, 278	23, 574	364, 112	277, 867	507, 983	37, 759

Fisheries of the coastal district of Washington, 1930

OPERATING UNITS: BY GEAR

Item	Gill nets		Lines		Pound nets	Dip nets
	Drift, salmon	Set, salmon	Set	Troll		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				12		
On boats and shore	130	190	13	10	61	30
Total	130	190	13	22	61	30
Vessels:						
Motor				6		
Net tonnage				48		
Boats:						
Motor	106	63	4	7	56	
Other		157	9		53	
Apparatus:						
Number	106	271	13	64	100	30
Square yards	199, 192	91, 302				
Hooks			1, 300	224		

Fisheries of the coastal district of Washington, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Drag bag nets	Traps, crab	Tongs and rakes	Shovels	Spears	Total, exclusive of duplication
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:						
On vessels			2			14
On boats and shore	8	121	21	2,664	14	2,786
Total	8	121	23	2,664	14	2,800
Vessels.						
Motor			1			7
Net tonnage			8			56
Boats.						
Motor	2	112	8			301
Other		9	17			234
Apparatus:						
Number	2	4,095	27	2,664	14	
Length, yards	120					

CATCH: BY GEAR

Species	Gill nets				Lines			
	Drift		Set[1]		Set		Troll	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Carp			6,483	$194				
Halibut							3,518	$340
"Lingcod"							61,097	611
Perch					1,432	$43		
Rockfishes							19,970	178
Salmon:								
Blueback, red or sockeye			1,393,838	204,894				
Chinook or king	286,097	$13,160	86,411	3,975			841,024	100,763
Chum or keta	135,684	678	374,940	1,875				
Silver or coho	291,060	11,351	572,650	22,333			535,925	31,347
Steelhead trout	340	22	103,340	6,820				
Sturgeon	7,470	224						
Total	720,651	25,435	2,537,662	240,091	1,432	43	1,461,534	133,239

Species	Pound nets		Dip nets		Drag bag nets	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Salmon:						
Chinook or king	182,597	$8,399				
Chum or keta	872,220	4,361				
Silver or coho	648,220	25,281				
Smelt			105,600	$5,280	10,040	$502
Steelhead trout	5,230	345				
Total	1,708,267	38,386	105,600	5,280	10,040	502

Species	Traps		Tongs and rakes		Shovels	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH						
Crabs	1,379,160	$91,714				
Clams:						
Hard					6,765	$840
Razor					799,516	152,130
Oysters:						
Eastern, market			1,970	$1,851		
Japanese, market			158,672	49,412		
Native, market			8,193	6,098		
Total	1,379,160	91,714	168,835	57,361	806,281	152,970

[1] Includes catch by spears.

Fisheries of the Columbia River district of Washington, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets		Lines		Pound nets	Fish wheels	Dip nets	Total, exclusive of duplication
		Drift, salmon	Set, salmon	Set	Troll				
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels					12				12
On boats and shore	498	720	106	29	202	208	26	122	1, 747
Total	498	720	106	29	214	208	26	122	1, 759
Vessels:									
Motor					6				6
Net tonnage					53				53
Boats:									
Motor	44	543	60	20	166	141		68	890
Other	62		46	8		124			231
Apparatus:									
Number	57	543	271	55	724	381	39	122	
Length, yards	16, 044								
Square yards		1, 292, 883	66, 124						
Hooks				5, 500	3, 258				

CATCH: BY GEAR

Species	Haul seines		Gill nets				Lines—Set	
			Drift		Set			
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Carp	208, 246	$6, 247						
Salmon:								
Blueback, red or sockeye	38, 596	6, 561	78, 907	$13, 414	9, 297	$1, 580		
Chinook or king	897, 786	114, 019	3, 119, 732	393, 086	65, 205	8, 216	373	$47
Chum or keta	14, 447	72	187, 761	938	2, 977	15		
Silver or coho	17, 147	823	188, 789	9, 062	2, 754	132		
Shad	331, 169	6, 623	58, 823	1, 176	1, 441	29		
Steelhead trout	255, 355	21, 705	397, 104	33, 754	48, 551	4, 127		
Sturgeon	10, 059	432	24, 029	1, 033	4, 908	211	1, 972	85
Total	1, 772, 805	156, 482	4, 055, 145	452, 463	135, 133	14, 310	2, 345	132

Species	Lines—Troll		Pound nets		Fish wheels		Dip nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Salmon:								
Blueback, red or sockeye			82, 662	$14, 053	54, 934	$9, 339	30, 636	$5, 208
Chinook or king	385, 302	$55, 483	2, 284, 487	249, 009	173, 537	21, 866	153, 793	19, 378
Chum or keta			368, 014	1, 840	1, 024	5	5, 619	28
Silver or coho	1, 594, 381	98, 852	1, 036, 224	44, 558	2, 596	112	3, 920	169
Shad			121, 751	2, 435	18, 631	373		
Smelt							1, 607, 416	24, 111
Steelhead trout	260	22	1, 061, 073	89, 130	26, 861	2, 256	80, 872	6, 793
Sturgeon			10, 523	452	3, 130	135	39	2
Total	1, 979, 943	154, 357	4, 964, 734	401, 477	280, 713	34, 086	1, 882, 295	55, 689

Industries related to the fisheries of Washington, 1930

TRANSPORTING

Item	Puget Sound district	Coastal district	Columbia River district	Total
Persons engaged on vessels	137	2	21	160
Vessels motor:				
5 to 10 tons	8	2	10	20
11 to 20 tons	14		2	16
21 to 30 tons	13			13
31 to 40 tons	8			8
41 to 50 tons	5			5
51 to 60 tons	1			1
81 to 90 tons	1			1
Total	50	2	12	64
Net tonnage	1,291	16	118	1,425

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Establishments	64	32	10	106
Persons engaged:				
Proprietors	84	34	7	125
Salaried employees	146	26	22	194
Wage earners—				
Average for season	1,428	437	269	2,134
Average for year	775	76	131	982
Paid to salaried employees	$521,037	$63,324	$64,875	$649,236
Paid to wage earners	893,984	90,290	164,392	1,148,666
Total salaries and wages	1,415,021	153,614	229,267	1,797,902

PRODUCTS MANUFACTURED

Item	Quantity	Value
Cod:		
Salted[1] pounds	3,092,877	$151,190
Salted, packaged do	662,250	[2] 88,904
Halibut steaks do	89,938	15,105
Herring, spiced do	18,300	3,480
Sablefish, salted do	118,509	8,872
Salmon:		
Fresh steaks do	34,917	5,565
Mild-cured do	4,124,000	884,514
Salted do	45,346	4,929
Kippered (chinook) do	2,371,258	479,347
Smoked do	126,062	33,327
Canned—		
Blueback, red or sockeye standard cases	376,244	5,074,410
Chinook or king do	101,018	1,592,754
Chum or keta do	79,763	284,531
Humpback or pink do	3,712	23,702
Silver or coho do	141,541	1,294,363
Steelhead trout do	6,457	86,917
Eggs—		
For food do	1,667	15,683
For bait do	2,837	76,931
Shad:		
Canned do	3,088	8,958
Roe, canned do	113	3,616
Clams:		
Hard—		
Fresh-shucked gallons	4,100	6,211
Canned, whole, minced, and juice standard cases	17,856	78,353
Razor—		
Canned, whole, minced, chowder, and juice do	45,153	416,349

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[1] The cod were salted in Alaskan waters.

[2] This figure is included in the total, however, it should be explained that it represents a further manufacture of salted cod already included in the table.

Industries related to the fisheries of Washington, 1930—Continued

WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED—Continued

Item	Quantity	Value
Oysters:		
Western, fresh-shucked ... gallons	28, 375	$225, 241
Japanese, fresh-shucked ... do	25, 000	87, 500
Unclassified products		
Packaged [3]	(4)	47, 992
Canned [5] ... standard cases	312	4, 420
Meal, salmon and halibut [6] ... tons	1, 050	70, 071
Oil, salmon and halibut ... gallons	122, 458	29, 973
Miscellaneous [7]	(4)	47, 283
Total		11, 150, 491

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[3] Includes fresh and frozen steaks of "lingcod" and rockfish; packaged fresh crab meat; and fresh-shucked eastern oysters and scallops.

[4] Data not available.

[5] Includes canned herring for bait and dog and cat food.

[6] Includes small amount of salmon-egg meal.

[7] Includes canned sturgeon and crabs; smoked herring; kippered sablefish; and mild-cured shad.

NOTE.—Some of the above products may be have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State.

OREGON

Fisheries of Oregon, 1930

CATCH: BY DISTRICTS

Species	Columbia River district		Coastal district	
	Pounds	Value	Pounds	Value
FISH				
Flounders:				
"Sole"	3, 272	$125	4, 451	$132
Other			37, 722	1, 220
Hake			265	3
Halibut	137, 069	17, 623	275, 575	29, 860
Herring			138, 756	2, 408
"Lingcod"	53, 907	1, 868	133, 603	2, 727
Perch			42, 405	945
Rockfishes	26, 080	768	92, 608	2, 654
Sablefish	83, 645	3, 017	106, 624	3, 192
Salmon:				
Blueback, red or sockeye	279, 674	47, 575		
Chinook or king	10, 548, 627	1, 334, 326	1, 315, 782	112, 330
Chum or keta	318, 771	1, 594	266, 843	1, 334
Silver or coho	3, 580, 402	210, 810	4, 555, 529	217, 368
Shad	832, 518	16, 651	479, 327	9, 589
Smelt	188, 229	3, 893	5, 943	326
Steelhead trout	1, 488, 220	126, 124	391, 353	26, 395
Striped bass			15, 664	1, 942
Sturgeon	74, 581	3, 207	4, 201	182
Tuna, albacore	255	33	2, 911	207
Total	17, 615, 250	1, 767, 614	7, 869, 562	412, 814
SHELLFISH				
Crabs			725, 532	44, 106
Crawfish	176, 800	17, 680		
Clams:				
Razor			38, 372	7, 197
Soft			25, 068	1, 567
Oysters, native, market			8, 177	5, 310
Total	176, 800	17, 680	797, 149	58, 180
Grand total	17, 792, 050	1, 785, 294	8, 666, 711	470, 994

Fisheries of the Columbia River district of Oregon, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets		Lines		Pound nets	Dip nets	Traps, craw-fish	Total, exclusive of duplication
		Drift, salmon	Set, salmon	Trawl and set	Troll				
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				22	44				66
On boats and shore	530	1,310	86	58	290	37	184	58	2,456
Total	530	1,310	86	80	334	37	184	58	2,522
Vessels, motor				6	22				28
Net tonnage				65	217				282
Boats:									
Motor	32	921	84	46	248	22		46	1,315
Other	46		3	12		18		12	86
Apparatus:									
Number	41	921	183	392	1,201	61	184	986	
Length, yards	23,273								
Square yards		2,910,360	47,580						
Hooks				39,200	5,400				

CATCH: BY GEAR

Species	Haul seines		Gill nets		Lines—Trawl and set	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Flounders; "Sole"					3,272	$123
Halibut					137,069	17,623
"Lingcod"					53,907	1,868
Rockfishes					26,080	768
Sablefish					83,645	3,017
Salmon:						
Blueback, red or sockeye	76,154	$12,946	165,579	$28,179		
Chinook or king	1,887,311	237,801	7,428,041	935,933		
Chum or keta	23,827	119	252,314	1,262		
Silver or coho	49,488	2,375	353,808	16,983		
Shad	626,937	12,539	157,645	3,153		
Smelt			53,500	1,872		
Steelhead trout	479,589	40,765	631,949	53,716		
Sturgeon	1,556	67	41,181	1,771	29,491	1,268
Tuna, albacore					255	33
Total	3,144,862	306,612	9,084,017	1,042,869	333,719	24,702

Species	Lines—Troll		Pound nets		Dip nets		Traps	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Salmon:								
Blueback, red or sockeye			23,077	$3,923	14,864	$2,527		
Chinook or king	624,179	$89,882	355,078	38,704	254,018	32,006		
Chum or keta			41,357	207	1,273	6		
Silver or coho	2,886,150	178,941	287,606	12,367	3,350	144		
Shad			47,851	957	85	2		
Smelt					134,729	2,021		
Steelhead trout	1,066	91	296,533	24,909	79,083	6,643		
Sturgeon			1,739	75	614	26		
SHELLFISH								
Crawfish							176,800	$17,680
Total	3,511,395	268,914	1,053,241	81,142	488,016	43,375	176,800	17,680

Fisheries of the coastal district of Oregon, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets		Lines		Traps, crab	Tongs	Shovels	Total, exclusive of duplication
		Drift, salmon	Set, salmon	Trawl and set	Troll				
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				6	12				16
On boats and shore	6	640	319	2	138	223	2	246	1, 345
Total	6	640	319	8	150	223	2	246	1, 361
Vessels:									
Motor				2	6				7
Net tonnage				24	47				63
Boats:									
Motor	2	472	174	1	116	198	1		863
Other	2	7	161			25	2		187
Apparatus:									
Number	2	479	941	95	517	6, 690	2	246	
Length, yards	866								
Square yards		602, 920	151, 181						
Hooks				9, 500	2, 326				

CATCH: BY GEAR

Species	Haul seines		Gill nets		Lines			
					Trawl and set		Troll	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Flounders:								
"Sole"	475	$12			3, 976	$120		
Other	6, 104	232	19, 321	$563	12, 297	425		
Hake	265	3						
Halibut					273, 698	29, 663	1, 877	$197
Herring	6, 822	120	131, 934	2, 288				
"Lingcod"					91, 132	1, 863	42, 471	864
Perch	3, 229	98	39, 176	847				
Rockfishes					71, 722	2, 084	20, 886	570
Sablefish					106, 624	3, 192		
Salmon:								
Chinook or king			1, 035, 324	85, 686			280, 458	26, 664
Chum or keta			266, 843	1, 334				
Silver or coho			2, 957, 095	119, 864			1, 598, 434	97, 504
Shad			479, 327	9, 589				
Smelt	856	43	5, 087	283				
Steelhead trout			390, 348	26, 325			1, 005	70
Striped bass	614	74	15, 050	1, 868				
Sturgeon			4, 158	179	20	2	23	1
Tuna, albacore					20	2	2, 891	205
Total	18, 365	582	5, 343, 663	248, 826	559, 489	37, 351	1, 948, 045	126, 055

Species	Traps		Tongs		Shovels	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH						
Crabs	725, 532	$44, 106				
Clams:						
Razor					38, 372	$7, 197
Soft					25, 068	1, 567
Oysters, native, market			8, 177	$5, 310		
Total	725, 532	44, 106	8, 177	5, 310	63, 440	8, 764

Industries related to the fisheries of Oregon, 1930

TRANSPORTING IN COLUMBIA RIVER DISTRICT

Persons engaged on vessels	48
Vessels, motor:	
5 to 10 tons	18
11 to 20 tons	9
Total	27
Net tonnage	286

WHOLESALE AND MANUFACTURING

Operating Units, Salaries, and Wages

Item	Columbia River district	Coastal district	Total
Establishments	35	19	54
Persons engaged:			
Proprietors	32	15	47
Salaried employees	56	17	73
Wage earners—			
Average for season	660	74	734
Average for year	409	50	459
Paid to salaried employees	$199, 844	$55, 685	$255, 529
Paid to wage earners	478, 246	59, 203	537, 449
Total salaries and wages	678, 090	114, 888	792, 978

Products Manufactured

Item	Quantity	Value
Salmon:		
Mild-cured pounds	546, 150	$123, 317
Canned—		
Blueback, red or sockeye standard cases	5, 923	124, 383
Chinook or king do	206, 276	3, 227, 599
Chum or keta do	8, 649	29, 671
Silver or coho do	106, 868	1, 138, 930
Steelhead do	11, 588	183, 496
Shad:		
Canned do	7, 364	26, 114
Roe, canned do	813	26, 004
Crab meat, packaged (fresh-cooked) pounds	126, 475	59, 365
Clams, razor: Canned, whole, minced, and juice standard cases	956	8, 631
Oysters, western, fresh-shucked gallons	9, 530	70, 884
Other products [1]	(2)	69, 432
Total		5, 087, 826

[1] Includes salted sablefish; canned crabs; fresh-shucked eastern and Japanese oysters; canned salmon eggs (for bait); salmon meal; and salmon oil.

[2] Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State.

CALIFORNIA

Fisheries of California, 1930

CATCH: BY DISTRICTS

Species	Northern district		San Francisco district		Monterey district	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Anchovies			261, 850	$3, 142	43, 500	$749
Barracuda					30	3
Carp			67, 012	1, 315		
Catfish	43, 343	$6, 401	389, 848	51, 827		
Cod			9, 259, 119	150, 928		
Eels			10	1		
Flounders:						
"California halibut"					24, 412	2, 799
"Sole"	1, 569, 399	95, 889	8, 059, 671	493, 201	904, 119	53, 843
Other	82, 203	3, 489	815, 450	34, 064	104, 739	4, 477
Grayfish	2, 345	23	221, 672	2, 212	8, 925	89
Hake			50, 983	510	5, 105	51
Halibut	413, 958	46, 519	31, 119	2, 955		
Hardhead			38, 857	5, 257		
Herring	103, 183	1, 692	601, 927	5, 437		
Horse mackerel					95, 271	1, 030
Kingfish			40, 337	1, 230	124, 607	4, 286
"Lingcod"	511, 979	20, 067	581, 902	24, 514	196, 354	10, 150
Mackerel			12, 362	371	1, 363, 106	42, 489
Perch	32, 426	1, 296	112, 486	5, 639	14, 957	694
Pilchard or sardine			48, 468, 957	195, 812	259, 097, 933	1, 177, 617
Pompano					516	214
Rock bass					16	1
Rockfishes	253, 568	8, 480	1, 027, 496	34, 321	2, 825, 970	98, 261
Sablefish	627, 051	26, 387	461, 348	12, 421	267, 589	8, 366
Salmon	3, 501, 539	287, 900	2, 221, 940	209, 336	279, 409	31, 528
Sculpin	229	5			817	21
Sea bass, white or squeteague	216	7	48, 334	3, 513	45, 677	3, 069
Shad			1, 199, 459	45, 314		
Skates	3, 030	61	221, 324	4, 426	28, 871	570
Smelt	72, 893	4, 528	198, 406	10, 937	339, 963	18, 105
Splittail			18, 528	555		
Squawfish			5, 207	300		
Striped bass			866, 808	90, 387		
Suckers			1, 990	100		
Tomcod	712	28	22, 460	898		
Tuna and tunalike fishes:						
Albacore					172, 962	12, 570
Bonito					1, 166	58
Whitebait	144, 754	8, 974	31, 633	2, 688	2, 996	261
Other fish	70, 343	1, 677	12, 156	277	12, 731	528
Total	7, 433, 171	513, 423	75, 350, 651	1, 393, 888	265, 961, 741	1, 471, 829
SHELLFISH, ETC.						
Crabs	92, 448	9, 638	1, 898, 832	230, 083	1, 104	162
Shrimp			2, 687, 831	40, 318	8, 736	1, 954
Abalone					631, 795	126, 359
Clams:						
Cockle	7	2	21, 534	7, 594		
Pismo					2, 409	1, 230
Soft			37, 303	9, 474		
Mixed	4, 916	1, 028	246	70		
Mussels			3	1	30	5
Octopus	5, 141	410	8, 578	740	63, 003	6, 069
Oysters:						
Eastern, market			72, 796	29, 118		
Native, market			4, 949	3, 093		
Squid					10, 937, 974	115, 614
Terrapin			58	7		
Total	102, 512	11, 078	4, 732, 130	320, 498	11, 645, 051	251, 393
WHALE PRODUCTS						
Whale oil			3, 844, 209	166, 953		
Grand total	7, 535, 683	524, 501	83, 926, 990	1, 881, 339	277, 606, 792	1, 723, 222

Fisheries of California, 1930—Continued

CATCH: BY DISTRICTS—Continued

Species	Southern district—Off California			
	San Pedro division		San Diego division	
	Pounds	Value	Pounds	Value
FISH				
Anchovies	10, 311	$284	3, 900	$39
Barracuda	2, 554, 875	186, 151	958, 703	63, 107
Cabrilla			471	17
Carp	2, 375	175		
Eels	10	1		
Flounders:				
"California halibut"	731, 066	93, 132	109, 465	11, 829
"Sole"	379, 366	16, 324	6, 498	583
Other	17, 341	728	43	3
Flyingfish	48, 458	1, 805		
Grayfish	288, 167	8, 703	124, 633	582
Halfmoon	36, 765	2, 720		
Herring	259	13	43, 579	565
Horse mackerel	273, 557	10, 112		
Kingfish	289, 743	5, 548	2, 471	79
"Lingcod"	3, 408	178		
Mackerel	14, 473, 352	184, 846	681, 280	13, 840
Mullet	11, 096	1, 055	9, 657	858
Perch	104, 431	3, 444	3, 377	98
Pilchard or sardine	182, 711, 875	977, 784	4, 171, 982	26, 219
Pompano	1, 351	757	356	142
Rock bass	345, 636	24, 459	130, 020	5, 644
Rockfishes	2, 044, 311	89, 218	1, 053, 604	50, 445
Sablefish	5, 506	405		
Salmon	6	1		
Sculpin	65, 567	7, 009	23, 043	1, 982
Sea bass:				
Black	103, 246	5, 292	84, 227	3, 690
White or squeteague	886, 685	80, 406	258, 373	18, 818
Sheepshead	203, 593	7, 470	37, 461	1, 454
Skates	31, 410	662	1, 755	34
Smelt	431, 409	19, 874	13. 927	739
Swordfish	196, 425	26, 609	365, 070	48, 732
Tuna and tunalike fishes:				
Albacore	107, 987	10, 857	2, 168	224
Bluefin	15, 443, 346	881, 976	155, 546	8, 556
Bonito	2, 624, 642	83, 143	1, 240, 688	38, 363
Skipjack or striped tuna	1, 109, 680	44, 387	1, 905, 595	76, 224
Yellowfin	12, 564	795	22, 989	1, 379
Whitebait	55	4		
Whitefish	115, 299	8, 630	99, 267	3, 836
Yellowtail	241, 838	13, 498	973, 121	39, 069
Other fish	33, 990	2, 338		
Total	225, 941, 001	2, 800, 793	12, 483, 269	417, 150
SHELLFISH, ETC.				
Crabs	12	3		
Sea crawfish or spiny lobster	267, 670	53, 160	106, 780	21, 074
Abalone	15, 521	3, 972		
Clams:				
Cockle	8, 510	2, 063		
Pismo	19, 363	8, 380		
Octopus	258	46		
Squid	30, 376	1, 672	1, 112	86
Total	341, 710	69, 296	107, 892	21, 160
Grand total	226, 282, 711	2, 870, 089	12, 591, 161	438, 310

Fisheries of California, 1930—Continued

CATCH: BY DISTRICTS—Continued

Species	Southern district—Off Latin America				Total southern district	
	San Pedro division		San Diego division			
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Anchovies					14, 211	$323
Barracuda	937, 715	$96, 374	312, 443	$33, 487	4, 763, 736	379, 119
Cabrilla	387, 394	22, 545	121, 674	4, 528	509, 539	27, 090
Carp					2, 375	175
Eels					10	1
Flounders:						
"California halibut"	12, 562	1, 234	189, 136	19, 936	1, 042, 229	126, 131
"Sole"					385, 864	16, 907
Other	100	7			17, 484	738
Flyingfish					48, 458	1, 805
Grayfish	1, 555	62			414, 355	9, 347
Halfmoon					36, 765	2, 720
Herring					43, 838	578
Horse mackerel					273, 557	10, 112
Kingfish					292, 214	5, 627
"Lingcod"					3, 408	178
Mackerel			1, 264	23	15, 155, 896	198, 709
Mullet	554	37			21, 307	1, 950
Perch	660	30			108, 468	3, 572
Pilchard or sardine					186, 883, 857	1, 004, 003
Pompano					1, 707	899
Rock bass	13, 972	822	18, 519	1, 491	508, 147	32, 416
Rockfishes			8, 405	429	3, 106, 320	140, 092
Sablefish					5, 506	405
Salmon					6	1
Sculpin					88, 610	8, 991
Sea bass:						
Black	71, 152	3, 818	135, 384	7, 078	394, 009	19, 878
White or squeteague	128, 193	14, 426	258, 944	24, 243	1, 532, 195	137, 893
Sheepshead	377	15	2, 258	96	243, 689	9, 035
Skates					33, 165	696
Smelt			1, 082	79	446, 418	20, 692
Spanish mackerel	19, 620	1, 284	23, 345	757	42, 965	2, 041
Swordfish			1, 234	154	562, 729	75, 495
Tuna and tunalike fishes:						
Albacore					110, 155	11, 081
Bluefin	6, 150, 000	338, 341	172, 390	9, 144	21, 921, 282	1, 238, 017
Bonito	1, 214, 567	42, 123	83, 197	2, 879	5, 163, 094	166, 508
Skipjack or striped tuna	5, 737, 340	203, 878	11, 732, 972	465, 347	20, 485, 587	789, 836
Yellowfin	12, 537, 771	754, 534	44, 080, 857	2, 639, 509	56, 654, 181	3, 396, 217
Whitebait					55	4
Whitefish	360	24	10, 176	470	225, 102	12, 960
Yellowtail	2, 414, 674	111, 829	1, 140, 795	45, 380	4, 770, 428	209, 776
Other fish	4, 874	236			38, 864	2, 574
Total	29, 633, 440	1, 591, 619	58, 294, 075	3, 255, 030	326, 351, 785	8, 064, 592
SHELLFISH, ETC.						
Crabs					12	3
Sea crawfish or spiny lobster			1, 019, 689	188, 911	1, 394, 139	263, 145
Abalone					15, 521	3, 972
Clams:						
Cockle					8, 510	2, 063
Pismo					19, 363	8, 380
Octopus					258	46
Squid					31, 488	1, 758
Turtles			580	58	580	58
Total			1, 020, 269	188, 969	1, 469, 871	279, 425
Grand total	29, 633, 440	1, 591, 619	59, 314, 344	3, 443, 999	327, 821, 656	8, 344, 017

Fisheries of California, 1930—Continued

CATCH: BY WATERS

Species	Off California[1]		Off Latin America	
	Pounds	Value	Pounds	Value
FISH				
Anchovies	319, 561	$4, 214		
Barracuda	3, 513, 608	249, 261	1, 250, 158	$129, 861
Cabrillo	471	17	509, 068	27, 073
Carp	69, 387	1, 490		
Catfish	433, 191	58, 228		
Cod	9, 259, 119	150, 928		
Eels	20	2		
Flounders:				
"California halibut"	864, 943	107, 760	201, 698	21, 170
"Sole"	10, 919, 053	659, 840		
Other	1, 019, 776	42, 761	100	7
Flyingfish	48, 458	1, 805		
Grayfish	645, 742	11, 609	1, 555	62
Hake	56, 088	561		
Halfmoon	36, 765	2, 720		
Halibut	445, 077	49, 474		
Hardhead	38, 857	5, 257		
Herring	748, 948	7, 707		
Horse mackerel	368, 828	11, 142		
Kingfish	457, 158	11, 143		
"Lingcod"	1, 293, 643	54, 909		
Mackerel	16, 530, 100	241, 546	1, 264	23
Mullet	20, 753	1, 913	554	37
Perch	267, 677	11, 171	660	30
Pilchard or sardine	494, 450, 747	2, 377, 432		
Pompano	2, 223	1, 113		
Rock bass	475, 672	30, 104	32, 491	2, 313
Rockfishes	7, 204, 949	280, 725	8, 405	429
Sablefish	1, 361, 494	47, 579		
Salmon	6, 002, 894	528, 765		
Sculpin	89, 656	9, 017		
Sea bass:				
Black	187, 473	8, 982	206, 536	10, 896
White or squeteague	1, 239, 285	105, 813	387, 137	38, 669
Shad	1, 199, 459	45, 314		
Sheepshead	241, 054	8, 924	2, 635	111
Skates	286, 390	5, 753		
Smelt	1, 056, 598	54, 183	1, 082	79
Spanish mackerel			42, 965	2, 041
Splittail	18, 528	555		
Squawfish	5, 207	300		
Striped bass	866, 808	90, 387		
Suckers	1, 990	100		
Swordfish	561, 495	75, 341	1, 234	154
Tomcod	23, 172	926		
Tuna and tunalike fishes:				
Albacore	283, 117	23, 651		
Bluefin	15, 598, 892	890, 532	6, 322, 390	347, 485
Bonito	3, 866, 496	121, 564	1, 297, 764	45, 002
Skipjack or striped tuna	3, 015, 275	120, 611	17, 470, 312	669, 225
Yellowfin	35, 553	2, 174	56, 618, 628	3, 394, 043
Whitebait	179, 438	11, 927		
Whitefish	214, 566	12, 466	10, 536	494
Yellowtail	1, 214, 959	52, 567	3, 555, 469	157, 209
Other fish	129, 220	4, 820	4, 874	236
Total	587, 169, 833	6, 597, 083	87, 927, 515	4, 846, 649
SHELLFISH, ETC.				
Crabs	1, 992, 396	239, 886		
Shrimp	2, 696, 567	42, 272		
Sea crawfish or spiny lobster	374, 450	74, 234	1, 019, 689	188, 911
Abalone	647, 316	130, 331		
Clams:				
Cockle	30, 051	9, 659		
Pismo	21, 772	9, 610		
Soft	37, 303	9, 474		
Mixed	5, 162	1, 098		
Mussels	33	6		
Octopus	76, 980	7, 265		
Oysters:				
Eastern, market	72, 796	29, 118		
Native, market	4, 949	3, 093		

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[1] The catch of cod was taken in Alaska waters.

Fisheries of California, 1930—Continued

CATCH: BY WATERS—Continued

Species	Off California		Off Latin America	
	Pounds	Value	Pounds	Value
SHELLFISH, ETC.—continued				
Squid	10,969,462	$117,372		
Terrapin	58	7		
Turtles			580	$58
Total	16,929,295	673,425	1,020,269	188,969
WHALE PRODUCTS				
Whale oil	3,844,209	166,953		
Grand total	607,943,337	7,437,461	88,947,784	5,035,618

Fisheries of the northern district of California, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets		Lines	
		Drift, salmon	Other	Set and hand	Troll
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				16	14
On boats and shore	32	251	13	156	234
Total	32	251	13	172	248
Vessels:					
Motor				7	7
Net tonnage				52	52
Boats:					
Motor	17		12	103	198
Other	4	166		17	
Apparatus:					
Number	18	166	12	369	857
Length, yards	2,685				
Square yards		158,253	8,862		
Hooks				57,907	4,040

Item	Dip nets	Paranzella nets	Traps		Shovels	Total, exclusive of duplication
			Crab	Octopus		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels		6				24
On boats and shore	42		28	1	9	552
Total	42	6	28	1	9	576
Vessels:						
Motor		2				10
Net tonnage		14				73
Boats:						
Motor			22	1		206
Other	42					212
Apparatus:						
Number	42	1	408	10	9	
Yards at mouth		17				

Fisheries of the northern district of California, 1930—Continued

CATCH: BY GEAR

Species	Haul seines		Gill nets		Lines			
					Set and hand		Troll	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Catfish	--------	-------	--------	--------	43, 343	$6, 401	----------	------
Flounders:								
"Sole"	--------	-------	--------	--------	5, 021	149	----------	------
Other	3, 962	$180	--------	--------	--------	-------	----------	------
Halibut	--------	-------	--------	--------	400, 613	45, 258	11, 443	$1, 080
Herring	103, 183	1, 692	--------	--------	--------	-------	----------	------
"Lingcod"	--------	-------	--------	--------	246, 597	10, 040	45, 227	1, 221
Perch	31, 561	1, 262	801	$32	--------	-------	----------	------
Rockfishes	--------	-------	--------	--------	159, 395	5, 530	5, 583	115
Sablefish	--------	-------	--------	--------	618, 754	26, 180	----------	------
Salmon	30, 436	1, 515	667, 975	64, 354	--------	-------	2, 803, 128	222, 031
Sculpin	--------	-------	--------	--------	229	5	----------	------
Sea bass, white or squeteague	--------	-------	--------	--------	216	7	----------	------
Smelt	39, 559	2, 323	25, 881	1, 790	--------	-------	----------	------
Whitebait	3, 378	139	214	8	--------	-------	----------	------
Other fish	--------	-------	153	10	67, 867	1, 605	598	15
Total	212, 079	7, 111	695, 024	66, 194	1, 542, 035	95, 175	2, 865, 979	224, 462
SHELLFISH								
Octopus	--------	-------	--------	--------	953	75	----------	------
Grand total	212, 079	7, 111	695, 024	66, 194	1, 542, 988	95, 250	2, 865, 979	224, 462

Species	Dip nets		Paranzella nets		Traps		Shovels	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Flounders:								
"Sole"	--------	------	1, 564, 378	$95, 740	--------	------	--------	------
Other	42	$2	78, 199	3, 307	--------	------	--------	------
Grayfish	--------	------	2, 345	23	--------	------	--------	------
Halibut	--------	------	1, 902	181	--------	------	--------	------
"Lingcod"	--------	------	220, 155	8, 806	--------	------	--------	------
Perch	64	2	--------	------	--------	------	--------	------
Rockfishes	--------	------	88, 590	2, 835	--------	------	--------	------
Sablefish	--------	------	8, 297	207	--------	------	--------	------
Skates	--------	------	3, 030	61	--------	------	--------	------
Smelt	7, 453	415	--------	------	--------	------	--------	------
Tomcod	--------	------	712	28	--------	------	--------	------
Whitebait	141, 162	8, 827	--------	------	--------	------	--------	------
Other fish	115	7	1, 610	40	--------	------	--------	------
Total	148, 836	9, 253	1, 969, 218	111, 228	--------	------	--------	------
SHELLFISH								
Crabs	--------	------	--------	------	92, 448	$9, 638	--------	------
Clams:								
Cockle	--------	------	--------	------	--------	------	7	$2
Mixed	--------	------	--------	------	--------	------	4, 916	1, 028
Octopus	--------	------	--------	------	4, 188	335	--------	------
Total	--------	------	--------	------	96, 636	9, 973	4, 923	1, 030

Fisheries of the San Francisco district of California, 1930

OPERATING UNITS: BY GEAR

Item	Lampara nets, sardine	Haul seines	Gill nets					Lines	
			Drift, salmon	Drift, sea bass	Drift, shad	Drift, striped bass	Other	Set and hand	Troll
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	68	--------	--------	--------	--------	--------	--------	133	2
On boats and shore	69	3	364	23	253	289	70	70	270
Total	137	3	364	23	253	289	70	203	272
Vessels:									
Motor	7	--------	--------	--------	--------	--------	--------	1	1
Net tonnage	76	--------	--------	--------	--------	--------	--------	9	19
Sail	--------	--------	--------	--------	--------	--------	--------	4	--------
Net tonnage	--------	--------	--------	--------	--------	--------	--------	1,722	--------
Total vessels	7	--------	--------	--------	--------	--------	--------	5	1
Total net tonnage	76	--------	--------	--------	--------	--------	--------	1,731	19
Boats:									
Motor	12	--------	187	15	126	151	37	81	255
Other	--------	1	10	2	7	9	2	10	--------
Apparatus:									
Number	19	1	197	17	133	160	64	619	936
Length, yards	4,080	100	--------	--------	--------	--------	--------	--------	--------
Square yards	--------	--------	634,088	38,070	441,226	434,720	108,177	--------	--------
Hooks	--------	--------	--------	--------	--------	--------	--------	55,843	4,780

Item	Fyke nets	Bag nets	Paranzella nets	Beam trawls	Traps	Harpoons, whaling	Tongs	Rakes	Shovels	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	14	86	--------	--------	44	--------	--------	--------	345
On boats and shore	97	52	--------	22	207	--------	21	1	28	997
Total	97	66	86	22	207	44	21	1	28	1,342
Vessels:										
Steam	--------	--------	--------	--------	--------	4	--------	--------	--------	4
Net tonnage	--------	--------	--------	--------	--------	153	--------	--------	--------	153
Motor	--------	3	20	--------	--------	--------	--------	--------	--------	30
Net tonnage	--------	20	312	--------	--------	--------	--------	--------	--------	408
Sail	--------	--------	--------	--------	--------	--------	--------	--------	--------	4
Net tonnage	--------	--------	--------	--------	--------	--------	--------	--------	--------	1,722
Total vessels	--------	3	20	--------	--------	4	--------	--------	--------	38
Total net tonnage	--------	20	312	--------	--------	153	--------	--------	--------	2,283
Boats:										
Motor	31	8	--------	22	206	--------	7	--------	--------	538
Other	40	5	--------	--------	--------	--------	14	1	28	89
Apparatus:										
Number	2,102	16	10	22	4,086	4	21	1	28	--------
Length, yards	--------	8,996	--------	--------	--------	--------	--------	--------	--------	--------
Yards at mouth	--------	--------	170	147	--------	--------	--------	--------	--------	--------

Fisheries of the San Francisco district of California, 1930—Continued

CATCH: BY GEAR

Species	Lampara nets		Haul seines		Gill nets	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Anchovies	261, 850	$3, 142				
Carp			4, 835	$232	43, 589	$705
Flounders, other	843	32			1, 302	31
Grayfish	2, 460	25			12, 602	126
Herring	3, 485	51			598, 442	5, 386
Kingfish	22, 160	776				
Mackerel	12, 246	367			116	4
Perch	1, 711	102			110, 550	5, 528
Pilchard or sardine	48, 468, 957	195, 812				
Salmon					1, 214, 084	109, 762
Sea bass, white or squeteague	3, 739	280			44, 403	3, 219
Shad					1, 199, 459	45, 314
Smelt	4, 844	291			193, 562	10, 646
Squawfish					1, 455	51
Striped bass					851, 417	88, 485
Suckers					33	2
Tomcod	15, 450	618			108	4
Whitebait	30, 758	2, 614			875	74
Other fish					1, 616	49
Total	48, 828, 503	204, 110	4, 835	232	4, 273, 613	269, 386

Species	Lines				Fyke nets		Bag nets	
	Set and hand		Troll					
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Carp					18, 588	$378		
Catfish					389, 848	51, 827		
Cod	9, 259, 119	$150, 928						
Eels	10	1						
Flounders:								
"Sole"	3, 146	142						
Other	367	9						
Grayfish	6, 822	68	1, 700	$12				
Halibut	391	38	669	61				
Hardhead					38, 857	5, 257		
"Lingcod"	267, 162	12, 022	7, 298	194				
Rockfishes	492, 075	17, 223	3, 020	61				
Sablefish	118, 203	3, 842						
Salmon			1, 007, 856	99, 574				
Sea bass, white or squeteague			192	14				
Splittail					18, 528	555		
Squawfish					3, 752	249		
Striped bass	15, 391	1, 902						
Suckers					1, 957	98		
Other fish	2, 166	54	487	11	220	10		
Total	10, 164, 852	186, 229	1, 021, 222	99, 927	471, 750	58, 374		
SHELLFISH, ETC.								
Shrimp							1, 296, 247	$19, 444
Octopus	7, 527	677						
Grand total	10, 172, 379	186, 906	1, 021, 222	99, 927	471, 750	58, 374	1, 296, 247	19, 444

Fisheries of the San Francisco district of California, 1930—Continued

CATCH: BY GEAR—Continued

Species	Paranzella nets		Beam trawls		Traps		Harpoons	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Flounders:								
"Sole"	8, 056, 525	$493, 059						
Other	812, 938	33, 992						
Grayfish	198, 088	1, 981						
Hake	50, 983	510						
Halibut	30, 059	2, 856						
Kingfish	18, 177	454						
"Lingcod"	307, 442	12, 298						
Perch	225	9						
Rockfishes	532, 401	17, 037						
Sablefish	343, 145	8, 579						
Skates	221, 324	4, 426						
Tomcod	6, 902	276						
Other fish	7, 667	153						
Total	10,585,876	575, 630						
SHELLFISH, ETC.								
Crabs	2, 946	380			1, 895, 886	$229, 703		
Shrimp			1, 391, 584	$20, 874				
Octopus	1, 051	63						
Total	3, 997	443	1, 391, 584	20, 874	1, 895, 886	229, 703		
WHALE PRODUCTS								
Whale oil							3, 844, 209	$166, 953
Grand total	10,589,873	576, 073	1, 391, 584	20, 874	1, 895, 886	229, 703	3, 844, 209	166, 953

Species	Tongs		Rakes and shovels		By hand	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC.						
Clams:						
Cockle			21, 534	$7, 594		
Soft			37, 303	9, 474		
Mixed			246	70		
Mussels			3	1		
Oysters:						
Eastern, market	72, 796	$29, 118				
Native, market	4, 949	3, 093				
Terrapin					58	$7
Total	77, 745	32, 211	59, 086	17, 139	58	7

Fisheries of the Monterey district of California, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines, sardine	Lampara nets		Gill nets		Trammel nets	Lines	
		Sardine	Squid	Drift, sea bass	Other		Set and hand	Troll
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	51	459	114				14	14
On boats and shore		312	184	31	71	13	238	204
Total	51	771	298	31	71	13	252	218
Vessels, motor	5	37	20				5	7
Net tonnage	232	571	274				102	114
Boats:								
Motor		25	32	23	42	8	182	197
Other					16		30	
Apparatus:								
Number	5	62	52	23	61	8	1, 954	1, 214
Length, yards	2, 050	20, 756	10, 220					
Square yards				45, 322	83, 390	12, 480		
Hooks							140, 631	4, 977

Fisheries of the Monterey district of California, 1930—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Paranzella nets	Traps, octopus	Rakes	Shovels	Abalone outfits	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels					50	557
On boats and shore	6	15	1	8	10	632
Total	6	15	1	8	60	1, 189
Vessels, motor					10	52
Net tonnage					77	904
Boats:						
Motor	2	11			2	237
Other		1				35
Apparatus:						
Number	1	141	1	8	12	
Yards at mouth	17					

CATCH: BY GEAR

Species	Purse seines		Lampara nets		Gill nets		Trammel nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Anchovies			43, 500	$749				
Barracuda					30	$3		
Flounders:								
"California halibut"			237	28			13, 946	$1, 693
"Sole"			140	7			2, 338	117
Other							184	8
Horse mackerel			94, 901	1, 012	370	18		
Kingfish			24, 254	857	82, 566	2, 902		
"Lingcod"			25	1			448	24
Mackerel			113, 212	3, 279	1, 419	44		
Perch			6, 958	350	7, 740	332		
Pilchard or sardine	64, 290, 585	$307, 400	194, 789, 676	870, 040	17, 672	177		
Pompano			384	166	132	48		
Rockfishes			823	26			65	2
Sculpin							65	7
Sea bass, white or squeteague	191	23	625	65	44, 819	2, 977		
Skates			1, 853	34			4, 308	96
Smelt			60, 844	3, 443	278, 848	14, 643		
Tuna and tunalike fishes, bonito			508	25	658	33		
Whitebait			2, 996	261				
Total	64, 290, 776	307, 423	195, 140, 936	880, 343	434, 254	21, 177	21, 354	1, 947
SHELLFISH								
Crabs					1, 088	160		
Squid			10, 937, 974	115, 614				
Grand total	64, 290, 776	307, 423	206, 078, 910	995, 957	435, 342	21, 337	21, 354	1, 947

Fisheries of the Monterey district of California, 1930—Continued

CATCH: BY GEAR—Continued

Species	Lines				Paranzella nets		Traps	
	Set and hand		Troll					
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Flounders:								
"California halibut"	5, 362	$542	1, 529	$186	3, 338	$350		
"Sole"	32, 446	1, 503	15	1	869, 180	52, 215		
Other	7, 489	399			97, 066	4, 070		
Grayfish	280	3			8, 645	86		
Hake					5, 105	51		
Kingfish	8, 257	289			9, 530	238		
"Lingcod,"	154, 597	8, 416	3, 370	186	37, 914	1, 523		
Mackerel	1, 245, 875	39, 088	2, 600	78				
Perch	129	7			130	5		
Rock bass	16	1						
Rockfishes	2, 769, 684	96, 129	3, 245	114	52, 153	1, 990		
Sablefish	243, 116	7, 754			24, 473	612		
Salmon			279, 409	31, 528				
Sculpin	752	14						
Sea bass, white or squeteague	26	2	16	2				
Skates	4, 517	91			18, 193	349		
Smelt	271	19						
Tuna and tunalike fishes, albacore			172, 962	12, 570				
Other fish	7, 838	357			4, 893	171		
Total	4, 480, 655	154, 614	463, 146	44, 665	1, 130, 620	61, 660		
SHELLFISH								
Crabs					16	2		
Shrimp							8, 736	$1, 954
Octopus	8, 974	904			117	11	53, 912	5, 154
Total	8, 974	904			133	13	62, 648	7, 108
Grand total	4, 489, 629	155, 518	463, 146	44, 665	1, 130, 753	61, 673	62, 648	7, 108

Species	Rakes		Shovels		Abalone outfits	
	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH						
Abalone					631, 795	$126, 359
Clams, Pismo			2, 409	$1, 230		
Mussels	30	$5				
Total	30	5	2, 409	1, 230	631, 795	126, 359

Fisheries of the San Pedro division of the southern district of California, 1930

OPERATING UNITS: BY GEAR

Item	Purse seines			Lampara nets		Haul seines	Gill nets		
	Barracuda	Sardine	Tuna	Sardine	Other		Drift, barracuda	Set, sea bass	Other
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:									
On vessels	303	785	817	390	361		32	14	21
On boats and shore					50	2	74	69	41
Total	303	785	817	390	411	2	106	83	62
Vessels, motor	33	78	82	39	41		11	4	7
Net tonnage	938	2, 991	3, 328	893	506		69	42	49
Boats:									
Motor					11		26	30	15
Other						1	1	3	11
Apparatus:									
Number	33	78	82	39	52	1	38	37	37
Length, yards	14, 228	31, 747	46, 625	17, 106	21, 152	100			
Square yards							330, 904	152, 625	30, 905

Fisheries of the San Pedro division of the southern district of California, 1930—Con.

OPERATING UNITS: BY GEAR—Continued

Item	Trammel nets	Lines		Paranzella nets	Traps, lobster	Harpoons, swordfish	Shovels	Abalone outfits	Total, exclusive of duplication
		Set and hand	Troll						
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:									
On vessels	37	119	731	10	19	21	--------	--------	2,025
On boats and shore	55	403	287	14	142	33	61	2	732
Total	92	522	1,018	24	161	54	61	2	2,757
Vessels, motor	13	40	110	3	8	5	--------	--------	254
Net tonnage	85	425	3,914	42	61	69	--------	--------	7,707
Boats:									
Motor	21	288	209	5	79	17	--------	1	405
Other	1	18	--------	--------	13	--------	--------	--------	41
Apparatus:									
Number	35	1,450	2,215	4	2,805	22	61	1	--------
Square yards	255,500	--------	--------	--------	--------	--------	--------	--------	--------
Yards at mouth	--------	--------	--------	67	--------	--------	--------	--------	--------
Hooks	--------	255,987	2,215	--------	--------	--------	--------	--------	--------

CATCH OFF CALIFORNIA: BY GEAR

Species	Purse seines		Lampara nets		Haul seines		Gill nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Anchovies	--------	--------	10,311	$284	--------	--------	--------	--------
Barracuda	712,739	$76,627	607,348	29,831	--------	--------	637,740	$47,273
Carp	--------	--------	--------	--------	2,375	$175	--------	--------
Eels	--------	--------	10	1	--------	--------	--------	--------
Flounders:								
"California halibut"	186	22	430	60	--------	--------	407	51
"Sole"	--------	--------	--------	--------	--------	--------	52	2
Flyingfish	170	6	315	12	--------	--------	47,973	1,787
Grayfish	3,862	75	7,264	195	--------	--------	102,013	3,067
Halfmoon	2,920	247	13,894	756	--------	--------	19,951	1,717
Herring	--------	--------	--------	--------	--------	--------	259	13
Horse mackerel	38,353	1,434	234,518	8,651	--------	--------	48	2
Kingfish	--------	--------	276,951	5,293	--------	--------	741	14
"Lingcod"	--------	--------	--------	--------	--------	--------	20	1
Mackerel	72,776	775	10,497,248	108,489	--------	--------	107,081	2,191
Mullet	--------	--------	1,892	181	--------	--------	9,204	874
Perch	3,761	229	76,915	1,399	--------	--------	22,109	1,735
Pilchard or sardine	121,628,006	647,669	61,083,099	330,096	--------	--------	770	19
Pompano	--------	--------	1,275	716	--------	--------	14	8
Rock bass	10,085	1,053	26,051	1,660	--------	--------	2,193	90
Rockfishes	90	6	613	18	--------	--------	237	15
Sculpin	--------	--------	--------	--------	--------	--------	29	3
Sea bass:								
Black	9,915	527	5,453	320	--------	--------	4,405	233
White or squeteague	73,512	9,024	391,883	36,480	--------	--------	395,165	32,188
Sheepshead	--------	--------	--------	--------	--------	--------	1,007	36
Smelt	1,879	83	268,021	10,757	--------	--------	158,072	8,875
Tuna and tunalike fishes:								
Bluefin	15,036,617	859,132	405,172	22,708	--------	--------	--------	--------
Bonito	2,416,196	78,599	121,256	2,799	--------	--------	56,121	1,089
Whitebait	--------	--------	--------	--------	--------	--------	55	4
Whitefish	30	2	105	9	--------	--------	253	14
Yellowtail	81,568	4,706	120,216	6,567	--------	--------	11,035	603
Other fish	87	4	940	61	--------	--------	1,006	22
Total	140,092,752	1,680,220	74,151,180	567,343	2,375	175	1,577,960	101,926
SHELLFISH								
Squid	--------	--------	30,316	1,665	--------	--------	--------	--------
Grand total	140,092,752	1,680,220	74,181,496	569,008	2,375	175	1,577,960	101,926

Fisheries of the San Pedro division of the southern district of California, 1930—Con.

CATCH OFF CALIFORNIA: BY GEAR—Continued

Species	Trammel nets		Lines				Paranzella nets	
			Set and hand		Troll			
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Barracuda					597, 025	$32, 418	23	$2
Flounders:								
"California halibut"	321, 738	$45, 476	28, 577	$3, 692			379, 728	43, 831
"Sole"	4, 214	261	6, 401	456			368, 699	15, 605
Other	3, 413	259	13, 168	416			760	53
Grayfish	60, 884	2, 203	98, 395	2, 664	3, 214	62	12, 535	437
Horse mackerel			638	25				
Kingfish			12, 051	241				
"Lingcod"			2, 688	142			700	35
Mackerel			3, 543, 550	69, 847	252, 697	3, 544		
Perch			415	21				
Pompano			47	25	15	8		
Rock bass	578	39	148, 146	11, 791	4, 810	302	1, 049	83
Rockfishes	130	7	2, 040, 496	89, 031	28	2	1, 727	80
Sablefish			5, 506	405				
Salmon					6	1		
Sculpin	20	1	64, 186	6, 848			443	51
Sea bass:								
Black	1, 483	103	80, 488	4, 011	529	32	973	66
White or squeteague	2, 251	322	21, 883	2, 089	364	33	1, 627	270
Sheepshead	818	33	53, 573	1, 884			86	3
Skates	6, 841	163	8, 868	184			15, 701	315
Smelt			3, 303	152			134	7
Swordfish					28, 091	1, 687		
Tuna and tunalike fishes:								
Albacore					107, 987	10, 857		
Bluefin			764	74	793	62		
Bonito	153	2	1, 605	42	29, 311	612		
Skipjack or striped tuna					1, 109, 680	44, 387		
Yellowfin					12, 564	795		
Whitefish	197	14	112, 052	8, 449				
Yellowtail	243	13	310	20	28, 466	1, 589		
Other fish	376	15	31, 403	2, 228	178	8		
Total	403, 339	48, 911	6, 278, 513	204, 737	2, 175, 758	96, 399	784, 185	60, 838
SHELLFISH								
Sea crawfish or spiny lobster	7, 045	1, 399					340	74
Squid	60	7						
Total	7, 105	1, 406					340	74
Grand total	410, 444	50, 317	6, 278, 513	204, 737	2, 175, 758	96, 399	784, 525	60, 912

Species	Traps		Harpoons		Shovels		Abalone outfits	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Perch	1, 231	$60						
Rock bass	152, 724	9, 441						
Rockfishes	990	59						
Sculpin	889	106						
Sheepshead	148, 109	5, 514						
Swordfish			168, 334	$24, 922				
Whitefish	2, 662	142						
Total	306, 605	15, 322	168, 334	24, 922				
SHELLFISH								
Crabs	12	3						
Sea crawfish or spiny lobster	260, 285	51, 687						
Abalone							15, 521	$3, 972
Clams:								
Cockle					8, 510	$2, 063		
Pismo					19, 363	8, 380		
Octopus	258	46						
Total	260, 555	51, 736			27, 873	10, 443	15, 521	3, 972
Grand total	567, 160	67, 058	168, 334	24, 922	27, 873	10, 443	15, 521	3, 972

Fisheries of the San Pedro division of the southern district of California, 1930—Con.

CATCH OFF LATIN AMERICA: BY GEAR

Species	Purse seines		Lampara nets		Gill nets	
	Pounds	Value	Pounds	Value	Pounds	Value
Barracuda	860,009	$91,182			187	$28
Cabrilla	315	16				
Flounders, "California halibut"	218	21				
Mullet	80	6	474	$31		
Perch	660	30				
Rock bass	3,262	240				
Sea bass:						
Black	44,593	2,398			2,953	173
White or squeteague	60,241	8,146			26,606	2,540
Spanish mackerel	545	38				
Tuna and tunalike fishes:						
Bluefin	6,150,000	338,341				
Bonito	1,208,576	41,935				
Skipjack or striped tuna	38,051	1,599				
Yellowfin	1,184,340	79,496				
Whitefish	200	13			160	11
Yellowtail	2,049,967	85,565			384	20
Other fish	354	21				
Total	11,601,411	649,047	474	31	30,290	2,772

Species	Trammel nets		Lines			
			Set and hand		Troll	
	Pounds	Value	Pounds	Value	Pounds	Value
Barracuda					77,519	$5,164
Cabrilla			387,079	$22,529		
Flounders:						
"California halibut"	11,990	$1,160	354	53		
Other	100	7				
Grayfish			1,555	62		
Rock bass			10,710	582		
Sea bass:						
Black			23,516	1,242	90	5
White or squeteague			41,346	3,740		
Sheepshead			377	15		
Spanish mackerel			19,075	1,246		
Tuna and tunalike fishes:						
Bonito					5,991	188
Skipjack or striped tuna					5,699,289	202,279
Yellowfin					11,353,431	675,038
Yellowtail					364,323	26,244
Other fish			4,520	215		
Total	12,090	1,167	488,532	29,684	17,500,643	908,918

Fisheries of the San Diego division of the southern district of California, 1930

OPERATING UNITS: BY GEAR

Item	Lampara nets, sardine	Gill nets			Trammel nets
		Drift, barracuda	Set, sea bass	Other	
	Number	*Number*	*Number*	*Number*	*Number*
Fishermen:					
On vessels	80	10	14		15
On boats and shore	17	39	46	15	37
Total	97	49	60	15	52
Vessels, motor	14	3	4		4
Net tonnage	138	21	34		36
Boats:					
Motor	3	16	18	8	14
Other				1	
Apparatus:					
Number	17	19	22	11	18
Length, yards	4,790				
Square yards		94,804	120,450	6,826	247,572

Fisheries of the San Diego division of the southern district of California, 1930—Con.

OPERATING UNITS: BY GEAR—Continued

Item	Lines		Traps, lobster	Harpoons, swordfish and turtle	Total, exclusive of duplication
	Set and hand	Troll			
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	214	770	43	75	841
On boats and shore	125	114	52	19	210
Total	339	884	95	94	1, 051
Vessels, motor	47	102	10	16	117
Net tonnage	643	5, 129	108	196	5, 246
Boats:					
Motor	79	72	37	8	119
Other			2		3
Apparatus:					
Number	735	1, 545	1, 572	24	
Hooks	115, 690	1, 545			

CATCH OFF CALIFORNIA: BY GEAR

Species	Purse seines		Lampara nets		Gill nets		Trammel nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Anchovies			3, 900	$39				
Barracuda					81, 492	$6, 799		
Flounders, "California halibut"							106, 983	$11, 628
Grayfish					63, 175	308	33, 711	151
Herring					43, 579	565		
Kingfish			490	18				
Mackerel			239, 355	2, 887	19, 220	392	271	8
Mullet			94	9	9, 563	849		
Perch			2, 934	82	443	16		
Pilchard or sardine			4, 171, 982	26, 219				
Pompano			327	131				
Rock bass					334	11	348	9
Rockfishes							536	32
Sea bass:								
Black					2, 250	108	1, 557	88
White or squeteague			28	5	105, 538	7, 973	116	21
Skates							1, 670	33
Smelt			6, 127	271	7, 800	468		
Tuna and tunalike fishes:								
Bluefin	130. 448	$7, 175	25, 067	1, 379				
Bonito			688	20	10, 944	270		
Yellowtail							8, 954	420
Total	130. 448	7, 175	4, 450, 992	31, 060	344, 338	17, 759	154, 146	12, 390
SHELLFISH								
Sea crawfish or spiny lobster							2, 194	295
Squid			679	34			433	52
Total			679	34			2, 627	347
Grand total	130, 448	7, 175	4, 451, 671	31, 094	344, 338	17, 759	156, 773	12, 737

NOTE.—The catch by purse seines was made entirely by fishermen from the San Pedro section.

Fisheries of the San Diego division of the southern district of California, 1930—Con.

CATCH OFF CALIFORNIA: BY GEAR—Continued

Species	Lines				Traps		Harpoons	
	Set and hand		Troll					
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH								
Barracuda			877, 211	$56, 308				
Cabrilla	471	$17						
Flounders:								
"California halibut"	2, 482	201						
"Sole"	6, 498	583						
Other	43	3						
Grayfish	27, 747	123						
Kingfish	1, 981	61						
Mackerel	404, 154	10, 322	18, 280	231				
Pompano	29	11						
Rock bass	117, 321	5, 016	126	6	11, 891	$602		
Rockfishes	1, 052, 930	50, 407			138	6		
Sculpin	23, 043	1, 982						
Sea bass:								
Black	80, 345	3, 490	75	4				
White or squeteague	152, 464	10, 795	227	24				
Sheepshead	15, 962	572			21, 499	882		
Skates	85	1						
Swordfish			175	9			364, 895	$48, 723
Tuna and tunalike fishes:								
Albacore			2, 168	224				
Bluefin			31	2				
Bonito	40	1	1, 229, 016	38, 072				
Skipjack or striped tuna			1, 905, 595	76, 224				
Yellowfin			22, 989	1, 379				
Whitefish	99, 267	3, 836						
Yellowtail	59	3	964, 108	38, 646				
Total	1, 984, 921	87, 424	5, 020, 001	211, 129	33, 528	1, 490	364, 895	48, 723
SHELLFISH								
Sea crawfish or spiny lobster					104, 586	20, 779		
Grand total	1, 984, 921	87, 424	5, 020, 001	211, 129	138, 114	22, 269	364, 895	48, 723

CATCH OFF LATIN AMERICA: BY GEAR

Species	Purse seines		Gill nets		Trammel nets	
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Barracuda	44, 761	$6, 732	18, 539	$1, 531		
Flounders, "California halibut"					189, 094	$19, 930
Sea bass:						
Black	1, 109	59	23, 887	1, 214	23, 433	1, 218
White or squeteague	2, 935	229	235, 115	21, 332	287	38
Smelt			1, 082	79		
Tuna and tunalike fishes:						
Bluefin	172, 296	9, 139				
Bonito	28, 511	1, 049				
Yellowfin	361, 494	22, 369				
Yellowtail	53, 560	2, 054	15, 083	730		
Total	664, 666	41, 631	293, 706	24, 886	212, 814	21, 186
SHELLFISH, ETC.						
Sea crawfish or spiny lobster					132	24
Grand total	664, 666	41, 631	293, 706	24, 886	212, 946	21, 210

NOTE.—The catch by purse seines was made entirely by fishermen from the San Pedro section.

Fisheries of the San Diego division of the southern district of California, 1930—Con.

CATCH OFF LATIN AMERICA: BY GEAR—Continued

Species	Lines				Traps		Harpoons	
	Set and hand		Troll					
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Barracuda			249,143	$25,224				
Cabrilla	121,674	$4,528						
Flounders, "California halibut"	42	6						
Mackerel	719	13	545	10				
Rock bass	17,804	1,474	715	17				
Rockfishes	8,405	429						
Sea bass:								
Black	86,448	4,562	507	25				
White or squeteague	20,461	2,625	146	19				
Sheepshead	2,258	96						
Spanish mackerel	23,345	757						
Swordfish							1,234	$154
Tuna and tunalike fishes:								
Bluefin	94	5						
Bonito			54,686	1,830				
Skipjack or striped tuna			11,732,972	465,347				
Yellowfin			43,719,363	2,617,140				
Whitefish	10,176	470						
Yellowtail	678	61	1,071,474	42,535				
Total	292,104	15,026	56,829,551	3,152,147			1,234	154
SHELLFISH, ETC.								
Sea crawfish or spiny lobster					1,019,557	$188,887		
Turtles							580	58
Grand total	292,104	15,026	56,829,551	3,152,147	1,019,557	188,887	1,814	212

Industries related to the fisheries of California, 1930

TRANSPORTING

Persons engaged on vessels	41
Vessels:	
Steam	1
Net tonnage	33
Motor	7
Net tonnage	539
Total vessels	8
Total net tonnage	572

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Northern district	San Francisco district	Monterey district	Southern district		Total
				San Pedro division	San Diego division	
Establishments	8	35	32	55	21	151
Persons engaged:						
Proprietors	5	47	41	93	27	213
Salaried employees	10	154	155	252	59	630
Wage earners—						
Average for season	119	685	2,201	3,163	1,518	7,686
Average for year	38	564	865	1,561	629	3,639
Paid to salaried employees	$21,173	$412,130	$398,786	$692,955	$172,846	$1,697,890
Paid to wage earners	40,199	859,041	880,068	1,789,121	779,796	4,348,225
Total, salaries and wages	61,372	1,271,171	1,278,854	2,482,076	952,642	6,046,115

Industries related to the fisheries of California—Continued

WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Barracuda, fresh fillets...pounds	225,000	$43,500
Cabrilla, fresh fillets...do	115,000	20,250
Cod:		
Salted [1]...do	2,870,327	150,928
Salted, packaged...do	2,149,827	[2] 323,836
Flounders, fresh fillets...do	4,735,000	947,000
Halibut, fresh fillets...do	45,000	15,750
Mackerel, canned...standard cases	127,479	430,962
Pilchard or sardine:		
Salted...pounds	65,490	3,472
Canned...standard cases	2,979,333	8,741,928
Meal...tons	25,938	1,414,858
Oil...gallons	5,803,166	1,826,319
Rockfishes, fresh fillets...pounds	761,500	120,400
Salmon, mild-cured...do	1,039,500	189,000
Sea bass, black, fresh fillets...do	55,500	7,825
Sea bass, white, fresh fillets...do	326,250	79,375
Totuava, fresh fillets...do	260,000	52,000
Tuna and tunalike fishes:		
Salted (bonito)...do	18,124	1,567
Canned [3]...standard cases	2,010,640	13,055,876
Meal...tons	8,554	428,556
Oil...gallons	56,748	14,153
Spiny lobsters (fresh-cooked, whole)...pounds	1,064,250	287,693
Shrimp:		
Sun-dried...do	146,842	28,507
Meal...tons	136	6,800
Squid, dried...pounds	1,383,660	55,346
Abalone, fresh steaks...do	583,589	248,025
Marine-shell novelties	(4)	95,000
Unclassified products:		
Packaged [5]	(4)	72,500
Salted [6]...pounds	526,029	41,142
Smoked [7]...do	450,098	124,131
Canned [8]...standard cases	24,484	198,783
Meal [9]...tons	3,712	237,672
Oil [10]...gallons	579,083	187,720
By-products [11]	(4)	269,202
Total		29,720,076

[1] The cod were salted in Alaskan waters.

[2] This figure is included in the total, however, it should be explained that it represents a further manufacture of salted cod already included in this table.

[3] Includes canned albacore; bluefin, striped, and yellowfin tuna; bonito; and yellowtail.

[4] Data not available.

[5] Includes packaged fried fish cakes; and fresh-shucked western and eastern oysters.

[6] Includes salted anchovies, barracuda, cabrilla, herring, mackerel, mullet, salmon, black and white sea bass, Spanish mackerel, whitefish, and yellowtail; and mild-cured shad.

[7] Includes smoked mackerel, sablefish, salmon, and sardines.

[8] Includes canned salmon, shad, shad roe, abalone, squid, and fish cakes.

[9] Includes kelp, mackerel, and miscellaneous fish meal and fish flour.

[10] Includes sperm, whale, shark, shark-liver, mackerel, and miscellaneous fish oils.

[11] Includes agar agar; glue; miscellaneous dry scrap; alginates; and oyster-shell products.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State.

HALIBUT FISHERY OF THE PACIFIC COAST [11]

The halibut fishery of the Pacific coast, which is prosecuted both by United States (including Alaska) and Canadian vessels, ranks as one of the foremost fisheries of that section. During 1931 the total catch by vessels of both nationalities amounted to 42,845,000 pounds, valued at $2,842,000. This is a decrease of 13 per cent in quantity and 43 per cent in value as compared with the catch in 1930. Of the total catch in 1930, 83 per cent was taken by United States craft and 17 per cent by Canadian craft. Considered according to the ports of landing, 42 per cent was landed at Canadian ports, 36 per cent at ports in the State of Washington, and 22 per cent at ports in Alaska.

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[11] To preclude the possibility of unwarranted comparison of figures given in this section with others for years previous to 1927, it should be explained that the figures as herein compiled differ from those published in separate reports for the Alaska fisheries and the Pacific Coast States. The difference lies principally in the fleet classifications as between Washington and Alaska, though there is reason to believe that the figures on landings also are not comparable with those previously published, due to variable practice in the inclusion of United States caught halibut landed at foreign ports as well as the possible duplication of figures. The present compilation is a complete résumé of the landings of the United States fleet for the year 1931 at all Pacific ports, except those in Oregon and California, without omission or duplication. The fleet classification has been applied arbitrarily by including in the "Washington fleet" all vessels that land more than half of their catch in that State. All others were included in the "Alaska fleet." It has been necessary to use "hailing fares" for the weight of the landings at Prince Rupert, British Columbia. The data for Seattle and Alaska are based on the actual weight of the fares. Halibut are landed with the heads on, but eviscerated.

Halibut fishery of the Pacific coast, 1931

UNITED STATES OPERATING UNITS: BY FLEET CLASSIFICATION

Item	Washington fleet	Alaska fleet	Total
Regular halibut vessels:			
Number	94	123	217
Net tonnage	2, 448	2, 663	5, 111
Crew	651	768	1, 419
Dories	94	123	217
Skates of lines	2, 812	3, 532	6, 344
Vessels in other fisheries but landing one or more fares of halibut:			
Number	28	46	74
Net tonnage	593	508	1, 101
Crew	150	167	317
Dories	18	33	51
Skates of lines	769	995	1, 764
Regular halibut boats:			
Number	--------	17	17
Crew	--------	47	47
Skates of lines	--------	306	306
Boats in other fisheries but landing one or more fares of halibut:			
Number	--------	95	95
Crew	--------	150	150
Skates of lines	--------	636	636

CATCH OF ALL SPECIES: BY UNITED STATES VESSELS AND BOATS

Fleet classification	Landed in—						Total	
	Washington		British Columbia		Alaska			
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
WASHINGTON FLEET								
Regular vessels:								
Halibut	11, 402, 473	$827, 509	1, 823, 417	$116, 981	884, 414	$51, 724	14, 110, 304	$996, 214
Sablefish	1, 255, 446	43, 245	--------	--------	1, 145	35	1, 256, 591	43, 280
"Lingcod"	301, 399	8, 452	--------	--------	--------	--------	301, 399	8, 452
Rockfishes	254, 823	6, 367	--------	--------	--------	--------	254, 823	6, 367
Total	13, 214, 141	885, 573	1, 823, 417	116, 981	885, 559	51, 759	15, 923, 117	1, 054, 313
Other vessels:								
Halibut	823, 482	70, 903	31, 441	2, 605	12, 657	1, 131	867, 580	74, 639
Sablefish	17, 269	725	--------	--------	--------	--------	17, 269	725
"Lingcod"	89, 007	2, 475	--------	--------	--------	--------	89, 007	2, 475
Rockfishes	23, 869	763	--------	--------	--------	--------	23, 869	763
Total	953, 627	74, 866	31, 441	2, 605	12, 657	1, 131	997, 725	78, 602
ALASKA FLEET								
Regular vessels:								
Halibut	2, 962, 330	206, 007	8, 413, 476	567, 533	6, 773, 367	410, 620	18, 149, 173	1, 184, 160
Sablefish	22, 318	980	--------	--------	257, 416	7, 455	279, 734	8, 435
"Lingcod"	15, 285	1, 111	--------	--------	--------	--------	15, 285	1, 111
Rockfishes	9, 106	639	--------	--------	1, 522	57	10, 628	696
Total	3, 009, 039	208, 737	8, 413, 476	567, 533	7, 032, 305	418, 132	18, 454, 820	1, 194, 402
Other vessels and boats:								
Halibut	25, 606	2, 847	295, 174	20, 675	1, 955, 680	145, 005	2, 276, 460	168, 527
Sablefish	3, 680	184	--------	--------	7, 915	234	11, 595	418
"Lingcod"	838	42	--------	--------	1, 249	33	2, 087	75
Rockfishes	1, 293	65	--------	--------	8, 412	198	9, 705	263
Total	31, 417	3, 138	295, 174	20, 675	1, 973, 256	145, 470	2, 299, 847	169, 283

Halibut fishery of the Pacific coast, 1931—Continued

CATCH OF ALL SPECIES: BY UNITED STATES VESSELS AND BOATS—Continued

Fleet classification	Landed in—						Total	
	Washington		British Columbia		Alaska			
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
COMBINED FLEETS								
Regular vessels:								
Halibut	14, 364, 803	$1,033,516	10, 236, 893	$684, 514	7, 657, 781	$462, 344	32, 259, 477	$2,180,374
Sablefish	1, 277, 764	44, 225	----------	--------	258, 561	7, 490	1, 536, 325	51, 715
"Lingcod"	316, 684	9, 563	----------	--------	----------	--------	316, 684	9, 563
Rockfishes	263, 929	7, 006	----------	--------	1, 522	57	265, 451	7, 063
Total	16, 223, 180	1, 094, 310	10, 236, 893	684, 514	7, 917, 864	469, 891	34, 377, 937	2, 248, 715
Other vessels and boats:								
Halibut	849, 088	73, 750	326, 615	23, 280	1, 968, 337	146, 136	3, 144, 040	243, 166
Sablefish	20, 949	909	----------	--------	7, 915	234	28, 864	1, 143
"Lingcod"	89, 845	2, 517	----------	--------	1, 249	33	91, 094	2, 550
Rockfishes	25, 162	828	----------	--------	8, 412	198	33, 574	1, 026
Total	985, 044	78, 004	326, 615	23, 280	1, 985, 913	146, 601	3, 297, 572	247, 885
All vessels and boats:								
Halibut	15, 213, 891	1, 107, 266	10, 563, 508	707, 794	9, 626, 118	608, 480	35, 403, 517	2, 423, 540
Sablefish	1, 298, 713	45, 134	----------	--------	266, 476	7, 724	1, 565, 189	52, 858
"Lingcod"	406, 529	12, 080	----------	--------	1, 249	33	407, 778	12, 113
Rockfishes	289, 091	7, 834	----------	--------	9, 934	255	299, 025	8, 089
Grand total	17, 208, 224	1, 172, 314	10, 563, 508	707, 794	9, 903, 777	616, 492	37, 675, 509	2, 496, 600

NOTE.—These statistics are compiled from data collected by the International Fisheries Commission for Washington, by the U. S. Consular Service and the Prince Rupert Halibut Exchange for British Columbia, and by bureau agents for Alaska.

CATCH OF HALIBUT: BY UNITED STATES AND CANADIAN VESSELS AND BOATS

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Fleet classification	Landed in—						Total	
	Washington		British Columbia		Alaska			
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
WASHINGTON FLEET								
Regular halibut vessels	11, 403	$827	1, 823	$117	884	$52	14, 110	$996
Other vessels	823	71	32	3	13	1	868	75
Total	12, 226	898	1, 855	120	897	53	14, 978	1, 071
ALASKA FLEET								
Regular halibut vessels	2, 962	206	8, 413	568	6, 774	410	18, 149	1, 184
Other vessels and boats	26	3	295	20	1, 955	145	2, 276	168
Total	2, 988	209	8, 708	588	8, 729	555	20, 425	1, 352
COMBINED FLEETS								
Regular halibut vessels	14, 365	1, 033	10, 236	685	7, 658	462	32, 259	2, 180
Other vessels and boats	849	74	327	23	1, 968	146	3, 144	243
Total	15, 214	1, 107	10, 563	708	9, 626	608	35, 403	2, 423
British Columbia fleet	13	1	7, 429	[1] 418	----------	--------	7, 442	419
Grand total	15, 227	1, 108	17, 992	1, 126	9, 626	608	42, 845	2, 842

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[1] Estimated.

NOTE.—These statistics are compiled from data collected by the International Fisheries Commission for Washington, by the U. S. Consular Service and the Prince Rupert Halibut Exchange for British Columbia, and by bureau agents for Alaska.

VESSEL FISHERIES AT SEATTLE, WASH.

During 1931, a total of 40,746,241 pounds of fishery products, valued at $2,308,024, were handled by Seattle wholesale dealers, exclusive of quantities received by transporting vessels or rail from Alaska or Canada. This represents an increase of 5 per cent in quantity and a decrease of 33 per cent in value as compared with the previous year.

Of the total quantity handled, 17,208,224 pounds, valued at $1,172,314, were landed by fishing vessels, an increase of 4 per cent in quantity and a decrease of 31 per cent in value as compared with the previous year. The vessels made 1,064 trips to the fishing grounds during the year, which is 170 trips less than during 1930. Halibut was the most important species taken by the fishing vessels, accounting for 88 per cent of the catch. Sablefish accounted for 8 per cent; and "lingcod" and rockfishes, each 2 per cent.

The catch by fishing vessels was taken off the Pacific coast from Oregon to Unalaska Island. South of Cape Spencer ranked as the most productive area, furnishing 56 per cent of the catch. Grounds west of Cape Spencer provided the balance.

During 1931, 23,538,017 pounds, valued at $1,135,710, were received by wholesale dealers from sources other than Alaska or Canada, or from vessels in the halibut fishery. Most of these products were taken in Puget Sound. This is an increase of 6 per cent in the quantity received from similar sources in 1930 and a decrease of 35 per cent in value. The increase in quantity was due to the large catch of humpback or pink salmon as compared with the "off year" for this species in 1930. All varieties of salmon accounted for 91 per cent of the fishery products handled by the wholesale dealers from sources other than the halibut fleet or from Alaska or Canada.

Fishery products landed by United States vessels at Seattle, Wash., 1931 [1]

BY BANKS

Fishing ground	Trips	Halibut				Sablefish	
		No. 1		No. 2			
		Pounds	Value	Pounds	Value	Pounds	Value
	Number						
West of Cape Spencer	268	4, 037, 226	$351, 278	3, 403, 699	$171, 878	18, 304	$761
South of Cape Spencer	796	3, 239, 218	327, 953	4, 533, 748	256, 157	1, 280, 409	44, 373
Total	1, 064	7, 276, 444	679, 231	7, 937, 447	428, 035	1, 298, 713	45, 134

Fishing ground	"Lingcod"		Rockfishes		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
West of Cape Spencer	30, 473	$1, 515	5, 153	$213	7, 494, 819	$525, 645
South of Cape Spencer	376, 092	10, 565	283, 938	7, 621	9, 713, 405	646, 669
Total	406, 529	12, 080	289, 091	7, 834	17, 208, 224	1, 172, 314

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[1] Halibut fleet.

Fishery products landed by United States vessels at Seattle, Wash., 1931 [1]—Cont'd

BY MONTHS

Month	Trips	Halibut				Sablefish	
		No. 1		No. 2			
		Pounds	Value	Pounds	Value	Pounds	Value
	Number						
January	7	----	----	----	----	----	----
February	7	16,367	$2,067	3,203	$249	2,000	$180
March	67	496,298	61,549	230,526	21,481	15,403	770
April	113	750,892	81,339	547,779	42,433	12,886	543
May	135	671,357	64,207	919,432	55,997	8,779	370
June	155	908,779	88,249	1,227,896	59,762	65,500	2,796
July	123	1,070,574	89,631	1,128,656	49,304	143,477	4,123
August	144	1,337,109	96,822	1,340,616	52,139	207,156	5,705
September	138	1,024,353	81,311	1,260,298	56,470	310,558	10,127
October	106	653,760	67,842	912,450	59,927	316,736	11,119
November	57	346,955	46,214	366,591	30,273	180,718	7,685
December	12	----	----	----	----	35,500	1,716
Total	1,064	7,276,444	679,231	7,937,447	428,035	1,298,713	45,134

Month	"Lingcod"		Rockfishes		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
January	26,600	$1,603	10,500	$779	37,100	$2,382
February	17,150	1,355	8,950	726	47,670	4,577
March	31,255	1,556	4,347	230	777,829	85,586
April	104,250	2,425	33,186	804	1,448,993	127,544
May	58,527	1,137	28,672	642	1,686,767	122,353
June	35,691	718	43,264	943	2,281,130	152,468
July	10,499	209	17,819	365	2,371,025	143,632
August	15,251	302	53,642	1,071	2,953,774	156,039
September	15,446	343	39,555	928	2,650,210	149,179
October	28,479	685	29,300	733	1,940,725	140,306
November	19,681	742	356	13	914,301	84,927
December	43,700	1,005	19,500	600	98,700	3,321
Total	406,529	12,080	289,091	7,834	17,208,224	1,172,314

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[1] Halibut fleet.

Fishery products received by Seattle wholesale dealers, 1931 [1]

BY MONTHS

Species	January		February		March		April		May	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Flounders:										
"Sole"	39,765	$1,388	43,221	$1,673	42,983	$1,242	49,022	$1,822	29,592	$805
Other	----	----	100	3	2,988	87	3,125	94	1,073	11
Halibut	----	----	----	----	3,020	453	3,060	248	7,547	609
Herring	875	18	2,217	34	1,050	10	750	4	----	----
"Lingcod"	8,847	398	12,219	623	9,466	259	22,241	636	6,666	134
Perch	3,040	137	3,180	160	7,034	274	5,541	166	5,352	160
Rockfishes	5,625	208	7,561	350	5,183	244	5,832	169	7,639	198
Salmon:										
Blueback, red or sockeye	----	----	----	----	----	----	----	----	329	23
Chinook or king	96	19	299	57	23,892	3,931	281,610	37,477	1,452,151	122,379
Chum or keta	3,584	179	----	----	----	----	----	----	442	12
Silver or coho	68	5	----	----	----	----	----	----	21,661	1,102
Smelt	15,159	858	23,457	556	27,766	808	654	54	12,424	996
Steelhead trout	24,652	3,105	21,007	2,868	759	91	----	----	14,436	1,414
Sturgeon	----	----	----	----	----	----	----	----	699	35
Crabs	62,706	3,926	69,573	4,787	76,666	4,816	75,056	4,978	50,439	6,185
Octopus	535	28	2,863	143	7,348	221	7,375	221	7,362	219
Total	164,952	10,269	185,697	11,254	208,155	12,436	454,266	45,869	1,617,812	134,282

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[1] This tabulation does not include fish received from Alaska or Canada, or vessels in the halibut fleet.

Fishery products received by Seattle wholesale dealers, 1931—Continued

BY MONTHS—Continued

Species	June		July		August		September	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Flounders:								
"Sole"	25, 439	$598	31, 932	$801	15, 278	$413	26, 580	$742
Other	4, 752	68	754	8	2, 497	35	526	5
Halibut	6, 274	521	6, 510	370	14, 719	281	1, 393	119
Herring	---------	--------	80	1	---------	--------	---------	--------
"Lingcod"	6, 447	128	9, 257	180	11, 027	198	3, 088	215
Perch	2, 190	109	2, 035	81	2, 067	82	2, 882	86
Rockfishes	15, 519	477	8, 371	230	4, 482	140	3, 100	77
Sablefish	34	1	---------	--------	---------	--------	---------	--------
Salmon:								
Blueback, red or sockeye	4, 127	288	13, 656	1, 205	26, 640	2, 443	1, 134	105
Chinook or king	2, 233, 946	210, 262	2, 664, 507	127, 301	1, 693, 110	142, 251	400, 087	28, 818
Chum or keta	2, 460	62	11, 945	179	80, 630	1, 209	167, 948	2, 516
Humpback or pink	4, 790	107	521, 095	8, 106	3, 388, 001	44, 893	768, 422	8, 504
Silver or coho	532, 070	29, 275	578, 830	29, 296	467, 407	24, 276	1, 739, 851	78, 359
Smelt	13, 117	656	29, 177	1, 114	12, 862	590	49, 379	1, 802
Steelhead trout	16, 114	804	14, 947	1, 195	1, 626	130	20, 496	888
Sturgeon	459	22	305	17	1, 842	97	327	16
Crabs	66, 616	4, 509	54, 648	4, 346	48, 818	3, 328	28, 842	1, 967
Octopus	4, 181	124	2, 785	84	1, 154	56	4, 961	242
Total	2, 938, 535	248, 011	3, 950, 834	174, 514	5, 772, 160	220, 422	3, 219, 016	124, 461

Species	October		November		December		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Flounders:								
"Sole"	22, 000	$588	27, 987	$669	35, 368	$940	389, 167	$11, 681
Other	7, 810	78	199	2	3, 080	31	26, 904	422
Halibut	1, 414	170	---------	--------	---------	--------	43, 937	2, 771
Herring	4, 715	94	2, 212	44	---------	--------	11, 899	205
"Lingcod"	3, 204	78	16, 469	492	42, 224	1, 611	151, 155	4, 952
Perch	6, 134	202	7, 699	323	6, 953	235	54, 107	2, 015
Rockfishes	4, 499	73	4, 445	194	13, 069	496	85, 325	2, 856
Sablefish	36, 186	1, 186	---------	--------	540	11	36, 760	1, 198
Salmon:								
Blueback, red or sockeye	---------	--------	---------	--------	---------	--------	45, 886	4, 064
Chinook or king	141, 143	9, 929	8, 721	687	409	29	8, 899, 971	683, 140
Chum or keta	2, 335, 295	35, 029	617, 555	13, 623	14, 160	212	3, 234, 019	53, 021
Humpback or pink	1, 145	14	---------	--------	---------	--------	4, 683, 453	61, 624
Silver or coho	937, 544	43, 926	129, 467	9, 017	44, 751	5, 350	4, 451, 649	220, 606
Smelt	45, 710	1, 868	22, 559	1, 241	16, 731	1, 198	268, 995	11, 741
Steelhead trout	2, 482	198	8, 087	647	11, 838	1, 411	136, 444	12, 751
Sturgeon	235	12	---------	--------	180	18	4, 047	217
Crabs	174, 310	8, 680	144, 128	7, 530	96, 142	5, 101	[2] 947, 944	60, 153
Octopus	9, 572	287	7, 769	255	10, 450	413	66, 355	2, 293
Total	3, 733, 398	102, 412	997, 297	34, 724	295, 895	17, 056	23, 538, 017	1, 135, 710

[2] 43,769 dozen.

LAKE FISHERIES [12]

The yield of the fisheries of the Great Lakes including the international lakes of northern Minnesota during 1930 amounted to 94,947,642 pounds, valued at $6,050,267. This is an increase of 11 per cent in quantity, but a decrease of 11 per cent in value as compared with the catch and its value for 1929. These fisheries gave employment to 6,980 fishermen or 3 per cent less than in 1929. Of the total number of fishermen employed, 1,666 regular fishermen were engaged on vessels, and 3,703 regular and 1,617 casual fishermen were employed in the shore and boat fisheries.

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[12] With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

The statistics of the catch presented herewith were obtained largely from the records of the various State fishery agencies and from the Dominion Bureau of Statistics, Ottawa, Canada. The data for the operating units (fishermen, vessels, boats, and gear) of the United States were obtained largely by bureau agents in a special canvass; although State records in several instances were very helpful in this work.

In all cases the statistics collected are for the calendar year, except for Lake of the Woods, Rainy Lake, and Lake Namakan in Minnesota, which are for two seasons. For Lake of the Woods the seasons are from June 1 to Nov. 1 and Dec. 1 to Apr. 1, and for Rainy and Namakan Lakes from May 15 to Nov. 1 and Dec. 1 to Apr. 1. The catch for these two seasons, in the order named, have been combined to constitute a year. The quantity of fish taken in these lakes between Jan. 1 and Apr. 1 amounted to less than 3 per cent of the total catch of these lakes in 1927.

Lake fisheries of the United States and Canada, 1930

CATCH: BY LAKES

Species	Lake Ontario			Lake Erie		
	United States	Canada	Total	United States	Canada	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Blue pike	30, 753	25, 000	55, 753	11, 792, 338	5, 899, 100	17, 691, 438
Bowfin	817	(1)	817	2, 576	(1)	2, 576
Burbot	95, 612	(1)	95, 612	405, 442	(1)	405, 442
Carp	26. 204	57, 600	83, 804	1, 861, 184	277, 800	2, 138, 984
Catfish and bullheads	80, 246	145, 000	225, 246	322, 631	102, 700	425, 331
Chubs	----------	----------	----------	12, 800	(1)	12, 800
Cisco	----------	----------	----------	347, 356	506, 600	853, 956
Eels	5, 100	99, 100	104, 200	----------	100	100
Goldfish	----------	----------	----------	63, 929	(1)	63, 929
Lake herring	189, 100	2, 319, 900	2, 509, 000	----------	----------	----------
Lake trout	24, 082	363, 700	387, 782	5, 083	11, 100	16, 183
Minnows	109	(1)	109	----------	----------	----------
Mooneye	----------	----------	----------	36, 488	(1)	36, 488
Pike (jacks)	8, 625	133, 100	141, 725	8, 183	41, 600	49, 783
Rock bass	705	(1)	705	2, 208	(1)	2, 208
Sauger pike	----------	----------	----------	1, 530, 770	(1)	1, 530, 770
Sheepshead	----------	----------	----------	2, 883, 581	(1)	2, 883, 581
Sturgeon	24, 483	3, 400	27, 883	16, 162	27, 000	43, 162
Sucker "mullet"	50, 617	(1)	50, 617	2, 015, 786	(1)	2, 015, 786
Sunfish	12, 440	(1)	12, 440	----------	----------	----------
White bass	78	(1)	78	483, 696	(1)	483, 696
Whitefish:						
Common	87, 400	551, 900	639, 300	1, 522, 012	1, 087, 700	2, 609, 712
Menominee	----------	----------	----------	91	(1)	91
Yellow perch	29, 943	135, 100	165, 043	4, 340, 117	3, 419, 700	7, 759, 817
Yellow pike	15, 583	23, 700	39, 283	1, 887, 708	274, 600	2, 162, 308
Miscellaneous	----------	243, 400	243, 400	----------	1, 032, 100	1, 032, 100
Total	681, 897	4, 100, 900	4. 782, 797	29, 540, 141	12, 680, 100	42, 220, 241

Species	Lake Huron			Lake Michigan	Lake Superior		
	United States	Canada	Total	United States	United States	Canada	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Blue pike	----------	----------	----------	----------	----------	700	700
Bowfin	16, 007	(1)	16, 007	----------	----------	----------	----------
Buffalofish	----------	----------	----------	400	----------	----------	----------
Burbot	6, 879	(1)	6, 879	115, 236	3, 399	(1)	3, 399
Carp	897, 014	4, 900	901, 914	491, 237	999	100	1, 099
Catfish and bullheads	134, 978	300	135, 278	77, 968	1, 109	(1)	1, 109
Chubs	506, 420	573, 300	1, 079, 720	5, 017, 391	526, 557	1, 100	527, 657
Lake herring	4, 748, 345	328, 400	5, 076, 745	6, 272, 752	11, 271, 303	2, 743, 500	14, 014, 803
Lake trout	1, 786, 529	1, 266, 300	3, 052, 829	5, 258, 024	2, 422, 998	1, 530, 200	3, 953, 198
Pike (jacks)	67, 250	2, 100	69, 350	86, 446	12, 800	9, 900	22, 700
Rock bass	13, 200	(1)	13, 200	788	----------	----------	----------
Sauger pike	198, 254	(1)	198, 254	23, 938	4, 064	(1)	4, 064
Sheepshead	5, 859	(1)	5, 859	18, 855	709	(1)	709
Smelt	----------	----------	----------	430	----------	----------	----------
Sturgeon	----------	8, 100	8, 100	----------	----------	2, 700	2, 700
Sucker "mullet"	2, 676, 949	(1)	2, 676, 949	1, 770, 917	86, 291	(1)	86, 291
Whitefish:							
Common	3, 379, 776	246, 600	3, 626, 376	4, 788, 574	294, 679	371, 700	666, 379
Menominee	109, 236	(1)	109, 236	221, 477	41, 331	(1)	41, 331
Yellow perch	714, 949	30, 600	745, 549	1, 429, 700	5, 219	100	5, 319
Yellow pike	1, 114, 999	153, 200	1, 268, 199	63, 376	22, 885	66, 600	89, 485
Crawfish	----------	----------	----------	51, 273	----------	----------	----------
Mussel shells	----------	----------	----------	5, 284, 475	----------	----------	----------
Miscellaneous	----------	396, 200	396, 200	----------	----------	34, 100	34, 100
Total	16, 376, 644	3, 010, 000	19, 386, 644	30, 973. 257	14, 694, 343	4, 760, 700	19, 455, 043

Lake fisheries of the United States and Canada, 1930—Continued

CATCH: BY LAKES—Continued

Species	Namakan Lake			Rainy Lake		
	United States	Canada	Total	United States	Canada	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Chubs	57, 103	(1)	57, 103	41, 118	(1)	41, 118
Crappie	2, 968	(1)	2, 968			
Pike (jacks)	42, 786	1, 659	44, 445	70, 686	157, 687	228, 373
Sturgeon	254	1, 445	1, 699	885	626	1, 511
Sucker "mullet"	19, 229	(1)	19, 229	1, 182	(1)	1, 182
Tullibees	2, 000	1, 695	3, 695		113, 163	113, 163
Whitefish, common	31, 352	10, 596	41, 948	57, 402	32, 645	90, 047
Yellow perch	401	(1)	401	3, 059	9, 630	12, 689
Yellow pike	53, 029	16, 658	69, 687	76, 030	144, 804	220, 834
Miscellaneous					3, 929	3, 929
Total	209, 122	32, 053	241, 175	250, 362	462, 484	712, 846

Species	Lake of the Woods			Total all lakes		
	United States	Canada	Total	United States	Canada	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Blue pike				11, 823, 091	5, 924, 800	17, 747, 891
Bowfin				19, 400	(1)	19, 400
Buffalofish	707	(1)	707	1, 107	(1)	1, 107
Burbot	15, 573	(1)	15, 573	642, 141	(1)	642, 141
Carp	16, 469	3, 134	19, 603	3, 293, 107	343, 534	3, 636, 641
Catfish and bullheads	23, 956	61, 183	85, 139	640, 888	309, 183	950, 071
Chubs				6, 161, 389	574, 400	6, 735, 789
Cisco				347, 356	506, 600	853, 956
Crappie	593	(1)	593	3, 561	(1)	3, 561
Eels				5, 100	99, 200	104, 300
Goldeye	55	(1)	55	55	(1)	55
Goldfish				63, 929	(1)	63, 929
Lake herring				22, 481, 500	5, 391, 800	27, 873, 300
Lake trout	310	23, 473	23, 783	9, 497, 026	3, 194, 773	12, 691, 799
Minnows				109	(1)	109
Mooneye				36, 488	(1)	36, 488
Pike (jacks)	227, 628	406, 870	634, 498	524, 404	752, 916	1, 277, 320
Rock bass				16, 901	(1)	16, 901
Sauger pike	73, 602	(1)	73, 602	1, 830, 628	(1)	1, 830, 628
Sheepshead				2, 909, 004	(1)	2, 909, 004
Smelt				430	(1)	430
Sturgeon	884	456	1, 340	42, 668	43, 727	86, 395
Sucker "mullet"	125, 102	(1)	125, 102	6, 746, 073	(1)	6, 746, 073
Sunfish				12, 440	(1)	12, 440
Tullibees	903, 023	102, 110	1, 005, 133	905, 023	216, 968	1, 121, 991
White bass				483, 774	(1)	483, 774
Whitefish:						
Common	11, 028	259, 187	270, 215	10, 172, 223	2, 560, 328	12, 732, 551
Menominee				372, 135	(1)	372, 135
Yellow perch	54, 721	2, 190	56, 911	6, 578, 109	3, 597, 320	10, 175, 429
Yellow pike	768, 225	541, 900	1, 310, 125	4, 001, 835	1, 221, 462	5, 223, 297
Crawfish				51, 273		51, 273
Mussel shells				5, 284, 475		5, 284, 475
Miscellaneous		138, 013	138, 013		1, 847, 742	1, 847, 742
Total	2, 221, 876	1, 538, 516	3, 760, 392	94, 947, 642	26, 584, 753	121, 532, 395

[1] Where there has been a Canadian catch of these species it is included under "Miscellaneous."

Lake fisheries of the United States, 1930

OPERATING UNITS: BY LAKES

Item	Lake Ontario	Lake Erie	Lake Huron	Lake Michigan	Lake Superior	Lake of the Woods, Rainy Lake, and Namakan Lake	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	3	326	226	931	174	----------	1,660
On boats and shore—							
Regular	81	915	766	903	959	79	3,703
Casual	93	266	126	987	145	----------	1,617
Total	177	1,507	1,118	2,821	1,278	79	6,980
Vessels:							
Steam	--------	29	17	53	8	----------	107
Net tonnage	--------	747	365	1,092	170	----------	2,374
Motor	1	30	43	254	32	----------	360
Net tonnage	11	292	457	2,681	285	----------	3,726
Total vessels	1	59	60	307	40	----------	467
Total net tonnage	11	1,039	822	3,773	455	----------	6,100
Boats:							
Motor	67	279	362	793	560	154	2,215
Other	84	416	118	650	396	----------	1,664
Apparatus:							
Haul seines	--------	157	63	16	7	----------	243
Length, yards	--------	83,839	29,689	5,173	1,740	----------	120,441
Gill nets—							
"Bull," 3 to 3½ inches	--------	1,158	----------	----------	----------	----------	1,158
Square yards	--------	339,778	----------	----------	----------	----------	339,778
"Shoal," 2¼ to 3¾ inches	774	10,836	2,306	14,706	7,201	----------	35,823
Square yards	114,349	1,724,562	843,001	3,347,593	2,467,171	----------	8,496,676
"Shoal," 4 to 6 inches	965	5,438	6,867	35,291	7,773	227	56,561
Square yards	193,500	1,135,496	2,545,679	10,489,683	3,885,655	78,963	18,328,976
Trammel nets	--------	94	----------	----------	----------	----------	94
Square yards	--------	9,882	----------	----------	----------	----------	9,882
Lines—							
Hand	--------	50	5	4	20	----------	79
Hooks	--------	100	6	4	20	----------	130
Troll	--------	----------	3	13	16	----------	32
Hooks	--------	----------	14	21	32	----------	67
Trot	50	181	144	242	614	----------	1,231
Hooks	48,500	34,633	136,700	345,000	263,541	----------	828,374
Pound nets	--------	86	716	668	105	77	1,652
Trap nets	187	3,940	1,979	147	42	----------	6,295
Fyke nets	154	1,183	378	507	25	268	2,515
Dip nets	--------	23	----------	4	----------	----------	27
Crawfish pots	--------	----------	----------	5,418	----------	----------	5,418
Crowfoot bars (pairs)	--------	----------	----------	285	----------	----------	285
Tongs	--------	----------	----------	12	----------	----------	12
Forks	--------	----------	----------	136	----------	----------	136
Picks	--------	----------	----------	656	----------	----------	656

OPERATING UNITS: BY STATES AND LAKES

Item	New York			Pennsylvania, Lake Erie	Ohio, Lake Erie
	Lake Ontario	Lake Erie	Total		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	3	85	88	118	123
On boats and shore—					
Regular	81	18	99	34	709
Casual	93	76	169	----------	180
Total	177	179	356	152	1,012
Vessels:					
Steam	----------	5	5	13	11
Net tonnage	----------	101	101	329	317
Motor	1	11	12	8	11
Net tonnage	11	84	95	90	118
Total vessels	1	16	17	21	22
Total net tonnage	11	185	196	419	435

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS: BY STATES AND LAKES—Continued

Item	New York			Pennsylvania, Lake Erie	Ohio, Lake Erie
	Lake Ontario	Lake Erie	Total		
	Number	*Number*	*Number*	*Number*	*Number*
Boats:					
Motor	67	18	85	12	210
Other	84	48	132	14	300
Apparatus:					
Haul seines		16	16		106
Length, yards		1, 550	1, 550		68, 452
Gill nets—					
"Bull," 3 to 3½ inches		598	598	560	
Square yards		137, 088	137, 088	202, 690	
"Shoal," 2¼ to 3¾ inches	774	1, 938	2, 712	4, 344	4, 554
Square yards	114, 349	280, 215	394, 564	736, 320	708, 027
"Shoal," 4 to 6 inches	965	1, 961	2, 926	3, 198	279
Square yards	193, 500	325, 407	518, 907	756, 448	53, 641
Trammel nets					94
Square yards					9, 882
Lines—					
Hand					50
Hooks					100
Trot	50	58	108		123
Hooks	48, 500	9, 960	58, 460		24, 673
Pound nets				57	25
Trap nets	187	22	209	40	3, 842
Fyke nets	154		154		548
Dip nets					23

Item	Michigan					Indiana, Lake Michigan
	Lake Erie	Lake Huron	Lake Michigan	Lake Superior	Total	
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:						
On vessels		226	442	95	763	17
On boats and shore—						
Regular	154	766	481	259	1, 660	16
Casual	10	126	793	60	989	62
Total	164	1, 118	1, 716	414	3, 412	95
Vessels:						
Steam		17	28	8	53	1
Net tonnage		365	492	170	1, 027	26
Motor		43	115	18	176	5
Net tonnage		457	1, 100	121	1, 678	76
Total vessels		60	143	26	229	6
Total net tonnage		822	1, 592	291	2, 705	102
Boats:						
Motor	39	362	571	174	1, 146	40
Other	54	118	509	73	754	31
Apparatus:						
Haul seines	35	63	1	7	106	
Length, yards	13, 837	29, 689	333	1, 740	45, 599	
Gill nets—						
"Shoal," 2¼ to 3¾ inches		2, 306	5, 519	2, 335	10, 160	387
Square yards		843, 001	1, 238, 387	730, 911	2, 812, 299	99, 817
"Shoal," 4 to 6 inches		6, 867	22, 842	4, 213	33, 922	536
Square yards		2, 515, 679	6, 299, 030	2, 029, 280	10,873,989	150, 294
Lines—						
Hand		5	4	20	29	
Hooks		6	4	20	30	
Troll		3	13	16	32	
Hooks		14	21	32	67	
Trot		144	75	333	552	
Hooks		136, 700	117, 600	159, 041	413, 341	
Pound nets	4	716	482	59	1, 261	7
Trap nets	36	1, 979	147	42	2, 204	
Fyke nets	635	378	51	8	1, 072	
Dip nets			4		4	
Crowfoot bars (pairs)			237		237	30
Tongs			12		12	
Forks			123		123	
Picks			596		596	60

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS: BY STATES AND LAKES—Continued

Item	Illinois, Lake Michigan	Wisconsin			Minnesota		
		Lake Michigan	Lake Superior	Total	Lake Superior	Lake of the Woods, Rainy Lake, and Namakan Lake	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:							
On vessels	38	434	77	511	2		2
On boats and shore—							
Regular	26	380	172	552	528	79	607
Casual		132	35	167	50		50
Total	64	946	284	1, 230	580	79	659
Vessels:							
Steam	2	22		22			
Net tonnage	29	545		545			
Motor	8	126	13	139	1		1
Net tonnage	133	1, 372	154	1, 526	10		10
Total vessels	10	148	13	161	1		1
Total net tonnage	162	1, 917	154	2, 071	10		10
Boats:							
Motor	18	164	92	256	294	154	448
Other		110	40	150	283		283
Apparatus:							
Haul seines		15		15			
Length, yards		4, 840		4, 840			
Gill nets—							
"Shoal," 2¼ to 3¾ inches	1, 193	7, 607	1, 238	8, 845	3, 628		3, 628
Square yards	260, 405	1, 748, 984	581, 495	2, 330, 479	1, 154, 765		1, 154, 765
"Shoal," 4 to 6 inches	1, 190	10, 723	2, 080	12, 803	1, 480	227	1, 707
Square yards	376, 775	3, 663, 584	1, 269, 540	4, 933, 124	586, 835	78, 963	665, 798
Lines—							
Trot		167	47	214	234		234
Hooks		227, 400	43, 745	271, 145	60, 755		60, 755
Pound nets	1	178	46	224		77	77
Fyke nets		456	17	473		268	268
Crawfish pots		5, 418		5, 418			
Crowfoot bars (pairs)		18		18			
Forks		13		13			

OPERATING UNITS OF LAKE ONTARIO:[1] BY GEAR

Item	Gill nets		Lines, trot	Trap nets	Fyke nets	Total, exclusive of duplication
	"Shoal," 2¼ to 3¾ inches	"Shoal," 4 to 6 inches				
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:						
On vessels	3					1
On boats and shore—						
Regular	22	16		47	20	81
Casual	49	18	30			93
Total	74	34	30	47	20	177
Vessels, motor:						
11 to 20 tons	1					1
Net tonnage	11					11
Boats:						
Motor	31	13		26	16	67
Other	17	10	29	26	16	84
Apparatus:						
Number	774	965	50	187	154	
Square yards	114, 349	193, 500				
Hooks			48, 500			

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[1] Includes Niagara River below the Falls and the St. Lawrence River.

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS OF LAKE ERIE: [2] BY GEAR

Item	Haul seines	Gill nets			Trammel nets
		"Bull," 3 to 3½ inches	"Shoal," 2¼ to 3¾ inches	"Shoal," 4 to 6 inches	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	----	130	315	226	----
On boats and shore—					
Regular	312	----	28	6	----
Casual	62	----	21	8	14
Total	374	130	364	240	14
Vessels:					
Steam—					
11 to 20 tons	----	2	8	5	----
21 to 30 tons	----	8	13	11	----
31 to 40 tons	----	----	4	3	----
41 to 50 tons	----	----	2	----	----
61 to 70 tons	----	----	1	1	----
Total	----	10	28	20	----
Net tonnage	----	222	715	499	----
Motor—					
5 to 10 tons	----	12	19	17	----
11 to 20 tons	----	1	9	3	----
21 to 30 tons	----	1	1	1	----
Total	----	14	29	21	----
Net tonnage	----	131	283	195	----
Total vessels	----	24	57	41	----
Total net tonnage	----	353	998	694	----
Boats:					
Motor	60	----	20	4	7
Other	149	----	12	4	----
Apparatus:					
Number	157	1, 158	10, 836	5, 438	94
Length, yards	83, 839	----	----	----	----
Square yards	----	339, 778	1, 724, 562	1, 135, 496	9, 882

Item	Lines		Pound nets	Trap nets	Fyke nets	Dip nets	Total, exclusive of duplication
	Hand	Trot					
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	----	----	----	----	----	----	326
On boats and shore—							
Regular	8	----	36	487	141	----	915
Casual	50	125	----	1	2	23	266
Total	58	125	36	488	143	23	1, 507
Vessels:							
Steam—							
11 to 20 tons	----	----	----	----	----	----	8
21 to 30 tons	----	----	----	----	----	----	13
31 to 40 tons	----	----	----	----	----	----	5
41 to 50 tons	----	----	----	----	----	----	2
61 to 70 tons	----	----	----	----	----	----	1
Total	----	----	----	----	----	----	29
Net tonnage	----	----	----	----	----	----	747
Motor—							
5 to 10 tons	----	----	----	----	----	----	20
11 to 20 tons	----	----	----	----	----	----	9
21 to 30 tons	----	----	----	----	----	----	1
Total	----	----	----	----	----	----	30
Net tonnage	----	----	----	----	----	----	292
Total vessels	----	----	----	----	----	----	59
Total net tonnage	----	----	----	----	----	----	1, 039
Boats:							
Motor	2	----	13	166	40	----	279
Other	2	125	17	139	59	----	416
Apparatus:							
Number	50	181	86	3, 940	1, 183	23	----
Hooks	100	34, 633	----	----	----	----	----

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[2] Includes Niagara River above the Falls.

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS OF LAKE HURON: BY GEAR

Item	Haul seines	Gill nets		Lines			Pound nets	Trap nets	Fyke nets	Total, exclusive of duplication
		"Shoal," 2¼ to 3¾ inches	"Shoal," 4 to 6 inches	Hand	Troll	Trot				
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	98	156	------	------	62	24	42	------	226
On boats and shore—										
Regular	73	84	172	------	------	15	264	339	49	766
Casual	67	40	38	5	3	2	--------	5	2	126
Total	140	222	366	5	3	79	288	386	51	1,118
Vessels:										
Steam—										
5 to 10 tons	--------	1	4	------	------	1	2	------	------	5
11 to 20 tons	--------	1	5	------	------	2	--------	------	------	5
21 to 30 tons	--------	3	3	------	------	2	--------	------	------	3
31 to 40 tons	--------	2	2	------	------	1	--------	------	------	2
51 to 60 tons	--------	2	2	------	------	1	--------	------	------	2
Total	--------	9	16	------	------	7	2	------	------	17
Net tonnage	--------	279	354	------	------	174	11	------	------	365
Motor—										
5 to 10 tons	--------	7	13	------	------	1	4	12	------	28
11 to 20 tons	--------	2	5	------	------	1	1	3	------	11
21 to 30 tons	--------	2	3	------	------	1	1	------	------	3
31 to 40 tons	--------	1	1	------	------	1	--------	------	------	1
Total	--------	12	22	------	------	4	6	15	------	43
Net tonnage	--------	173	265	------	------	95	60	126	------	457
Total vessels	--------	21	38	------	------	11	8	15	------	60
Total net tonnage	--------	452	619	------	------	269	71	126	------	822
Boats:										
Motor	45	50	96	------	1	8	104	143	25	362
Other	33	28	18	2	2	1	7	42	5	118
Apparatus:										
Number	63	2,306	6,867	5	3	144	716	1,979	378	--- ---
Length, yards	29,689	----------	----------	------	------	--------	--------	------	------	-------
Square yards	--------	843,001	2,545,679	------	------	--------	--------	------	------	-------
Hooks	--------	----------	----------	6	14	136,700	--------	------	------	-------

OPERATING UNITS OF LAKE MICHIGAN:[3] BY GEAR

Item	Haul seines	Gill nets		Lines			Pound nets	Trap nets
		"Shoal," 2¼ to 3¾ inches	"Shoal," 4 to 6 inches	Hand	Troll	Trot		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	10	509	819	--------	--------	206	109	14
On boats and shore—								
Regular	26	372	590	4	6	32	241	30
Casual	8	74	48	--------	7	2	2	--------
Total	44	955	1,457	4	13	240	352	44
Vessels:								
Steam—								
5 to 10 tons	--------	1	5	--------	--------	3	--------	--------
11 to 20 tons	--------	18	27	--------	--------	5	1	--------
21 to 30 tons	--------	5	6	--------	--------	5	--------	--------
31 to 40 tons	--------	5	6	--------	--------	6	--------	--------
41 to 50 tons	--------	1	1	--------	--------	1	--------	--------
51 to 60 tons	--------	----------	----------	--------	--------	1	--------	--------
Total	--------	30	45	--------	--------	21	1	--------
Net tonnage	--------	622	839	--------	--------	527	15	--------

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[3] Includes operating units used in the mussel fisheries of streams tributary to Lakes Erie, Huron, and Michigan. Those used in Lakes Erie and Huron were inconsiderable and are included herein to avoid disclosure of private enterprise.

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS OF LAKE MICHIGAN: BY GEAR—Continued

Item	Haul seines	Gill nets		Lines			Pound nets	Trap nets
		"Shoal," 2¼ to 3¾ inches	"Shoal," 4 to 6 inches	Hand	Troll	Trot		
Vessels—Continued	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Motor—								
5 to 10 tons	3	78	149			22	33	5
11 to 20 tons	1	40	61			15	6	1
21 to 30 tons		9	9			3		
31 to 40 tons		4	3				1	
Total	4	131	222			40	40	6
Net tonnage	29	1,456	2,247			453	317	47
Total vessels	4	161	267			61	41	6
Total net tonnage	29	2,078	3,086			980	332	47
Boats:								
Motor	3	185	251	1	12	18	152	23
Other	3	83	122	1	1		10	3
Apparatus:								
Number	16	14,706	35,291	4	13	242	668	147
Length, yards	5,173							
Square yards		3,317,593	10,489,683					
Hooks				4	21	345,000		

Item	Fyke nets	Dip nets	Crawfish pots	Crowfoot bars	Tongs	Forks	Picks	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	44		2					931
On boats and shore—								
Regular	76		30	9		9		903
Casual	30	4	10	285	12	141	676	987
Total	150	4	42	294	12	150	676	2,821
Vessels:								
Steam—								
5 to 10 tons								7
11 to 20 tons								26
21 to 30 tons								9
31 to 40 tons								8
41 to 50 tons								2
51 to 60 tons								1
Total								53
Net tonnage								1,092
Motor—								
5 to 10 tons	15		1					160
11 to 20 tons	5							76
21 to 30 tons								13
31 to 40 tons								5
Total	20		1					254
Net tonnage	171		7					2,681
Total vessels	20		1					307
Total net tonnage	171		7					3,773
Boats:								
Motor	37		16	284		47	257	793
Other	25	2	23	10	12	103	419	650
Apparatus:								
Number	507	4	5,418	285	12	136	656	

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS OF LAKE SUPERIOR: BY GEAR

Item	Haul seines	Gill nets		Lines			Pound nets	Trap nets	Fyke nets	Total, exclusive of duplication
		"Shoal" 2¼ to 3¾ inches	"Shoal" 4 to 6 inches	Hand	Troll	Trot				
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:										
On vessels	------	117	107	------	------	73	6	------	------	174
On boats and shore—										
Regular	6	785	454	------	16	250	39	4	11	959
Casual	1	107	51	20	------	7	8	------	------	145
Total	7	1,009	612	20	16	330	53	4	11	1,278
Vessels:										
Steam—										
5 to 10 tons	------	1	1	------	------	1	------	------	------	1
11 to 20 tons	------	2	1	------	------	2	------	------	------	3
21 to 30 tons	------	2	3	------	------	1	------	------	------	3
41 to 50 tons	------	1	1	------	------	1	------	------	------	1
Total	------	6	6	------	------	5	------	------	------	8
Net tonnage	------	132	136	------	------	105	------	------	------	170
Motor—										
5 to 10 tons	------	17	23	------	------	12	3	------	------	27
11 to 20 tons	------	1	2	------	------	2	------	------	------	3
21 to 30 tons	------	1	------	------	------	------	------	------	------	1
31 to 40 tons	------	1	------	------	------	------	------	------	------	1
Total	------	20	25	------	------	14	3	------	------	32
Net tonnage	------	193	187	------	------	101	16	------	------	285
Total vessels	------	26	31	------	------	19	3	------	------	40
Total net tonnage	------	325	323	------	------	206	16	------	------	455
Boats:										
Motor	3	462	331	------	8	208	23	2	10	560
Other	5	352	79	20	------	8	9	------	------	396
Apparatus:										
Number	7	7,201	7,773	20	16	614	105	42	25	------
Length, yards	1,740	------	------	------	------	------	------	------	------	------
Square yards	------	2,467,171	3,885,655	------	------	------	------	------	------	------
Hooks	------	------	------	20	32	263,541	------	------	------	------

OPERATING UNITS OF LAKE OF THE WOODS, RAINY LAKE, AND NAMAKAN LAKE: BY GEAR

Item	Gill nets, "shoal" 4 to 6 inches	Pound nets	Fyke nets	Total, exclusive of duplication
	Number	*Number*	*Number*	*Number*
Fishermen on boats and shore—regular	63	21	27	79
Boats, motor	126	42	54	154
Apparatus:				
Number	227	77	268	----------
Square yards	78,963	----------	----------	----------

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS:[4] BY STATES AND COUNTIES

Item	New York								
	Cayuga	Chautauqua	Erie	Jefferson	Monroe	Niagara	Orleans	Oswego	St. Lawrence
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	------	85	------	3	------	------	------	------	------
On boats and shore—									
Regular	------	4	14	54	1	4	------	16	------
Casual	1	41	23	9	25	20	4	14	18
Total	1	130	37	66	26	24	4	30	18
Vessels:									
Steam	------	5	------	------	------	------	------	------	------
Net tonnage	------	101	------	------	------	------	------	------	------
Motor	------	11	------	1	------	------	------	------	------
Net tonnage	------	84	------	11	------	------	------	------	------
Total vessels	------	16	------	1	------	------	------	------	------
Total net tonnage	------	185	------	11	------	------	------	------	------
Boats:									
Motor	1	4	14	34	7	5	3	7	------
Other	1	21	15	32	10	15	1	15	18
Apparatus:									
Haul seines	------	16	------	------	------	------	------	------	------
Length, yards	------	1, 550	------	------	------	------	------	------	------
Gill nets—									
"Bull," 3 to 3½ inches	------	598	------	------	------	------	------	------	------
Square yards	------	137, 088	------	------	------	------	------	------	------
"Shoal," 2¼ to 3¾ inches	20	1, 829	109	168	66	15	------	214	------
Square yards	2, 160	258, 665	21, 550	18, 588	21, 120	3, 762	------	26, 924	------
"Shoal," 4 to 6 inches	------	1, 870	91	129	4	40	14	476	------
Square yards	------	305, 124	20, 283	16, 400	1, 280	14, 300	3, 920	93, 440	------
Lines—									
Trot	------	10	24	3	------	25	1	1	37
Hooks	------	2, 000	5, 560	750	------	3, 000	250	250	41, 600
Trap nets	------	------	22	187	------	------	------	------	------
Fyke nets	------	------	------	147	7	------	------	------	------

Item	New York—Continued		Pennsylvania	Ohio					
	Wayne	Total	Erie	Ashtabula	Cuyahoga	Erie	Lake	Lorain	Lucas
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	------	88	118	14	35	66	------	8	------
On boats and shore—									
Regular	6	99	34	96	14	198	49	32	74
Casual	14	169	------	11	20	49	4	2	25
Total	20	356	152	121	69	313	53	42	99
Vessels:									
Steam	------	5	13	2	5	3	------	1	------
Net tonnage	------	101	329	32	192	61	------	32	------
Motor	------	12	8	------	1	10	------	------	------
Net tonnage	------	95	90	------	9	109	------	------	------
Total vessels	------	17	21	2	6	13	------	1	------
Total net tonnage	------	196	419	32	201	170	------	32	------
Boats:									
Motor	10	85	12	30	6	75	18	11	17
Other	4	132	14	38	7	78	18	11	50
Apparatus:									
Haul seines	------	16	------	------	------	12	1	------	16
Length, yards	------	1, 550	------	------	------	7, 898	45	------	4, 434

[4] Exclusive of the operating units used in the mussel fisheries of streams tributary to the Great Lakes.

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS: BY STATES AND COUNTIES—Continued

Item	New York—Continued		Pennsylvania	Ohio					
	Wayne	Total	Erie	Ashtabula	Cuyahoga	Erie	Lake	Lorain	Lucas
Apparatus—Continued.									
Gill nets—	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
"Bull," 3 to 3½ inches	--------	598	560	--------	--------	--------	--------	--------	--------
Square yards	--------	137, 088	202, 690	--------	--------	--------	--------	--------	--------
"Shoal," 2¼ to 3¾ inches	291	2, 712	4, 344	515	400	3, 110	1	368	--------
Square yards	41, 795	394. 564	736, 320	85, 035	75, 504	481, 788	150	54, 000	--------
"Shoal," 4 to 6 inches	302	2, 926	3, 198	--------	72	65	48	70	--------
Square yards	64, 160	518, 907	756, 448	--------	19, 432	11, 895	8, 784	11, 530	--------
Trammel nets	--------	--------	--------	--------	--------	94	--------	--------	--------
Square yards	--------	--------	--------	--------	--------	9, 882	--------	--------	--------
Lines—									
Trot	7	108	--------	14	2	43	5	3	43
Hooks	5, 050	58, 460	--------	3, 450	400	8, 860	325	120	8, 350
Pound nets	--------	--------	57	--------	3	--------	--------	--------	22
Trap nets	--------	209	40	731	90	1, 562	369	183	197
Fyke nets	--------	154	--------	--------	--------	44	--------	5	296
Dip nets	--------	--------	--------	--------	18	3	--------	--------	--------

Item	Ohio—Continued			Michigan					
	Ottawa	Sandusky	Total	Alcona	Alger	Allegan	Alpena	Antrim	Arenac
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	--------	123	--------	27	4	55	--------	--------
On boats and shore—									
Regular	246	--------	709	24	32	6	62	3	34
Casual	63	6	180	1	9	--------	5	3	20
Total	309	6	1, 012	25	68	10	122	6	54
Vessels:									
Steam	--------	--------	11	--------	3	--------	8	--------	--------
Net tonnage	--------	--------	317	--------	44	--------	222	--------	--------
Motor	--------	--------	11	--------	4	2	3	--------	--------
Net tonnage	--------	--------	118	--------	27	11	19	--------	--------
Total vessels	--------	--------	22	--------	7	2	11	--------	--------
Total net tonnage	--------	--------	435	--------	71	11	241	--------	--------
Boats:									
Motor	53	--------	210	10	16	3	34	1	23
Other	95	3	300	1	10	--------	4	4	6
Apparatus:									
Haul seines	74	3	106	--------	--------	1	--------	--------	17
Length, yards	55, 151	924	68, 452	--------	--------	333	--------	--------	7, 469
Gill nets—									
"Shoal," 2¼ to 3¾ inches	160	--------	4, 554	3	80	50	629	6	16
Square yards	11, 550	--------	708, 027	788	15, 040	8, 500	205, 925	900	4, 256
"Shoal," 4 to 6 inches	24	--------	279	--------	801	260	1, 369	12	--------
Square yards	2, 000	--------	53, 641	--------	247, 300	43, 160	442, 675	1, 800	--------
Trammel nets	--------	--------	94	--------	--------	--------	--------	--------	--------
Square yards	--------	--------	9, 882	--------	--------	--------	--------	--------	--------
Lines—									
Hand	50	--------	50	--------	5	--------	--------	--------	--------
Hooks	100	--------	100	--------	5	--------	--------	--------	--------
Troll	--------	--------	--------	--------	16	--------	--------	--------	--------
Hooks	--------	--------	--------	--------	32	--------	--------	--------	--------
Trot	13	--------	123	--------	101	--------	26	--------	--------
Hooks	3, 168	--------	24, 673	--------	49, 000	--------	52, 000	--------	--------
Pound nets	--------	--------	25	17	7	12	46	4	3
Trap nets	710	--------	3, 842	34	--------	--------	165	--------	50
Fyke nets	203	--------	548	--------	--------	--------	--------	--------	24
Dip nets	2	--------	23	--------	--------	--------	--------	--------	--------

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS: BY STATES AND COUNTIES—Continued

Item	Michigan—Continued								
	Baraga	Bay	Benzie	Berrien	Charlevoix	Cheboygan	Chippewa	Delta	Emmet
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			25	24	69	36	10	56	7
On boats and shore—									
Regular	16	140	2	9	27	49	67	196	17
Casual	12	41		16	4	8	13	2	5
Total	28	181	27	49	100	93	90	254	29
Vessels:									
Steam			4	1	3	1	2		
Net tonnage			56	39	39	11	11		
Motor			4	4	19	13	2	19	2
Net tonnage			65	46	178	117	13	186	12
Total vessels			8	5	22	14	4	19	2
Total net tonnage			121	85	217	128	24	186	12
Boats:									
Motor	14	69	1	11	13	28	34	81	7
Other	14	57		2	2	5	17	50	7
Apparatus:									
Haul seines		34							
Length, yards		17, 380							
Gill nets—									
"Shoal," 2¼ to 3¾ inches	85	12	315	45	504	157	214	332	21
Square yards	25, 320	3, 192	103, 950	12, 585	151, 200	34, 375	37, 870	66, 475	3, 717
"Shoal," 4 to 6 inches	40	177	1, 074	762	5, 640	885	729	4, 516	290
Square yards	10, 415	50, 587	550, 740	252, 312	1, 507, 930	193, 950	396, 714	1, 449, 585	51, 330
Lines—									
Hand					1		5		
Hooks					1		5		
Trot		1	4	3	5	3	61	21	
Hooks		500	4, 500	8, 400	9, 000	1, 200	19, 600	27, 600	
Pound nets	11	66		2	23	66	74	150	24
Trap nets		584				473	71	83	21
Fyke nets	4	35					4	51	
Dip nets				4					

Item	Michigan—Continued								
	Gogebic	Grand Traverse	Houghton	Huron	Iosco	Keweenaw	Leelanau	Mackinac	Manistee
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels		9	38	18	21	5	51	79	22
On boats and shore—									
Regular	12	33	96	204	96	43	24	127	
Casual	6		18	27	1	2	7	11	4
Total	18	42	152	249	118	50	82	217	26
Vessels:									
Steam		1	2	2	1		6	1	
Net tonnage		9	34	57	15		94	8	
Motor		2	10	1	5	1	14	27	6
Net tonnage		17	61	10	68	10	99	228	46
Total vessels		3	12	3	6	1	20	28	6
Total net tonnage		26	95	67	83	10	193	236	46
Boats:									
Motor	9	22	78	87	32	28	16	62	1
Other	4	5	21	14	3	2	5	13	3
Apparatus:									
Haul seines	1		6	8	2				
Length, yards	90		1, 650	3, 108	852				

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS: BY STATES AND COUNTIES—Continued

Item	Michigan—Continued								
	Gogebic	Grand Traverse	Houghton	Huron	Iosco	Keweenaw	Leelanau	Mackinac	Manistee
Apparatus—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Gill nets—									
"Shoal," 2¼ to 3¾ inches	33	436	1, 298	129	4	276	1, 231	957	131
Square yards	10, 571	69, 232	526, 455	58, 950	1, 064	69, 000	262, 249	261, 688	19, 953
"Shoal," 4 to 6 inches	15	240	2, 400	500	1, 539	351	2, 180	2, 491	826
Square yards	6, 660	72, 000	1, 335, 023	207, 575	613, 724	194, 580	516, 633	877, 610	146, 412
Lines—									
Hand		1	10	2				3	
Hooks		1	10	2				3	
Troll		5		1			8		
Hooks		5		2			16		
Trot	13	1	84	28	14	36	7		8
Hooks	6, 500	400	38, 341	35, 200	19, 000	22, 600	4, 400		10, 000
Pound nets	1	25	6	221	150	2	12	251	
Trap nets		12		483	1		9	70	
Fyke nets				190					

Item	Michigan—Continued								
	Marquette	Mason	Menominee	Monroe	Muskegon	Oceana	Ontonagon	Ottawa	Presque Isle
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	14	18	14		17	7	11	32	27
On boats and shore—									
Regular	9	3	47	101	18	3	6	22	3
Casual				6	6		2		6
Total	23	21	61	107	41	10	19	54	36
Vessels:									
Steam	1				1		2	6	
Net tonnage	41				12		51	96	
Motor	2	8	4		5	2	1	1	6
Net tonnage	17	82	67		45	27	6	7	112
Total vessels	3	8	4		6	2	3	7	6
Total net tonnage	58	82	67		57	27	57	103	112
Boats:									
Motor	6	2	22	26	11	1	4	12	6
Other	1		4	31	3	1	4		2
Apparatus:									
Haul seines				23					
Length, yards				9, 385					
Gill nets—									
"Shoal," 2¼ to 3¾ inches	127		405		78	4	240	1, 014	699
Square yards	14, 630		60, 605		10, 850	800	40, 495	214, 708	310, 356
"Shoal," 4 to 6 inches	190	702	966		1, 391	172	210	1, 022	201
Square yards	56, 790	197, 100	235, 705		226, 300	40, 160	86, 262	218, 508	89, 244
Lines—									
Trot	26				6		12	8	72
Hooks	16, 100				12, 000		6, 900	17, 600	28, 800
Pound nets		6	22		7		3	15	
Trap nets			4	36					10
Fyke nets				216					

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS: BY STATES AND COUNTIES—Continued

Item	Michigan—Continued							
	Saginaw	Sanilac	Schoolcraft	St. Clair	Tuscola	Van Buren	Wayne	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			22	11	8	26		763
On boats and shore—								
Regular	7	15	3	33	16	2	53	1, 660
Casual				4			4	243
Total	7	15	25	48	24	28	57	2, 666
Vessels:								
Steam			2	2		4		53
Net tonnage			57	41		90		1, 027
Motor			4		2	3		176
Net tonnage			67		14	21		1, 678
Total vessels			6	2	2	7		229
Total net tonnage			124	41	14	111		2, 705
Boats:								
Motor	1	6	1	12	8	1	13	812
Other	5	3	1	8			23	335
Apparatus:								
Haul seines	1				1		12	106
Length, yards	660				220		4, 452	45, 599
Gill nets—								
"Shoal," 2¼ to 3¾ inches		14	130	167	60	258		10, 160
Square yards		3, 350	40, 000	50, 150	27, 000	86, 100		2, 812, 299
"Shoal," 4 to 6 inches		48	705	455	19	744		33, 922
Square yards		5, 130	240, 575	144, 400	6, 300	158, 800		10, 873, 989
Lines—								
Hand				2				29
Hooks				3				30
Troll				2				32
Hooks				12				67
Trot			3			9		552
Hooks			4, 500			19, 200		413, 341
Pound nets		19	3		9		4	1, 261
Trap nets	25		9	26	38			2, 204
Fyke nets				110	19		419	1, 072
Dip nets								4

Item	Indiana				Illinois			Wisconsin	
	Lake	Laporte	Porter	Total	Cook	Lake	Total	Ashland	Bayfield
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	3	14		17	21	17	38		75
On boats and shore—									
Regular	2	10	4	16	13	13	26	13	155
Casual	2			2				3	26
Total	7	24	4	35	34	30	64	16	256
Vessels:									
Steam		1		1	1	1	2		
Net tonnage		26		26	16	13	29		
Motor	1	4		5	5	3	8		12
Net tonnage	12	64		76	88	45	133		148
Total vessels	1	5		6	6	4	10		12
Total net tonnage	12	90		102	104	58	162		148
Boats:									
Motor	2	6	2	10	5	13	18	11	77
Other	1			1				5	29
Apparatus:									
Gill nets—									
"Shoal," 2¼ to 3¾ inches	31	338	18	387	553	640	1, 193	10	1, 188
Square yards	4, 503	91, 354	3, 960	99, 817	81, 705	178, 700	260, 405	4, 000	566, 215
"Shoal," 4 to 6 inches		536		536	400	790	1, 190	175	1, 865
Square yards		150, 294		150, 294	75, 480	301, 295	376, 775	54, 095	1, 198, 257
Lines—									
Trot								2	43
Hooks								800	42, 045
Pound nets	2	2	3	7		1	1		46
Fyke nets								5	10

Lake fisheries of the United States, 1930—Continued

OPERATING UNITS—BY STATES AND COUNTIES—Continued

Item	Wisconsin—Continued								
	Brown	Door	Douglas	Kenosha	Kewaunee	Manitowoc	Marinette	Milwaukee	Oconto
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	52	130	2	21	21	33	37	72	37
On boats and shore—									
Regular	97	139	4	3	34	16	11	9	41
Casual	66		6				35	11	
Total	215	269	12	24	55	49	83	92	78
Vessels:									
Steam					1	1		14	
Net tonnage					19	18		309	
Motor	22	50	1	7	6	8	15	2	15
Net tonnage	179	523	6	94	70	178	113	47	128
Total vessels	22	50	1	7	7	9	15	16	15
Total net tonnage	179	523	6	94	89	196	113	356	128
Boats:									
Motor	31	48	4	1	18	4	4	8	16
Other	53	10	6	1	1	2	21	4	5
Apparatus:									
Haul seines	15								
Length, yards	4, 840								
Gill nets—									
"Shoal," 2¼ to 3¾ inches	560	2, 897	40	402	291	626	775	646	965
Square yards	78, 750	854, 450	11, 280	126, 525	101, 640	162, 840	132, 076	96, 513	110, 850
"Shoal," 4 to 6 inches	470	5, 078	40	190	441	110	983	1, 291	1, 705
Square yards	77, 030	2, 210, 950	17, 188	86, 990	249, 580	39, 270	227, 866	445, 938	215, 420
Lines—									
Trot		82	2	9	21	4		23	
Hooks		67, 900	900	17, 000	28, 700	4, 800		43, 200	
Pound nets	33	68				30	13	4	1
Fyke nets	369	9	2				12		66
Crawfish pots	5, 418								

Item	Wisconsin—Contd.			Minnesota					
	Ozaukee	Sheboygan	Total	Cook	Lake	Koochiching	St. Louis	Roseau and Lake of the Woods	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	23	8	511				2		2
On boats and shore—									
Regular	8	13	543	372	89	12	74	60	607
Casual	2		149	10	18		22		50
Total	33	21	1, 203	382	107	12	98	60	659
Vessels:									
Steam	4	2	22						
Net tonnage	109	90	545						
Motor	1		139				1		1
Net tonnage	40		1, 526				10		10
Total vessels	5	2	161				1		1
Total net tonnage	149	90	2, 071				10		10
Boats:									
Motor	6	11	239	205	44	24	59	116	448
Other		3	140	176	63		44		283
Apparatus:									
Haul seines			15						
Length, yards			4, 840						
Gill nets:—									
"Shoal," 2¼ to 3¾ inches	435	10	8, 845	2, 446	437		745		3, 628
Square yards	83, 340	2, 000	2, 330, 479	775, 865	155, 780		223, 120		1, 154, 765
"Shoal," 4 to 6 inches	365	90	12, 803	628	85	36	791	167	1, 707
Square yards	68, 740	41, 800	4, 933, 124	258, 515	39, 970	8, 400	293, 950	64, 963	665, 798
Lines—									
Trot	19	9	214	219	11		4		234
Hooks	52, 000	13, 800	271, 145	54, 005	4, 950		1, 800		60, 755
Pound nets	6	23	224			12	5	60	77
Fyke nets			473					268	268
Crawfish pots			5, 418						

Lake fisheries of the United States, 1930—Continued

CATCH: By gear

Species	New York							
	Haul seines		Gill nets		Trot lines		Trap nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike			591, 786	$28, 606			3, 299	$469
Bowfin							667	22
Burbot			51, 864	2, 490			35, 374	2, 870
Carp	20, 000	$1, 200	20, 721	852			4, 611	253
Catfish and bullheads	2, 000	200	2, 130	232			43, 570	4, 708
Cisco			58, 604	5, 446				
Eels					4, 800	$240		
Lake herring			176, 170	14, 214			12, 930	746
Lake trout			19, 955	3, 164			7, 971	1, 015
Minnows	109	21						
Pike (jacks)			707	93			6, 137	604
Rock bass			240	20			952	87
Sturgeon			7, 925	2, 194	29, 560	7, 270	770	211
Sucker "mullet"	110, 000	7, 000	16, 679	843			47, 378	1, 637
Sunfish							8, 072	369
White bass			398	33			404	30
Whitefish, common			193, 284	39, 863			63, 255	8, 265
Yellow perch			39, 525	3, 127			17, 619	859
Yellow pike			2, 217	342			24, 048	4, 085
Total	132, 109	8, 421	1, 182, 205	101, 519	34, 360	7, 510	277, 057	26, 230

Species	New York—Continued				Pennsylvania			
	Fyke nets		Total		Gill nets		Pound nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike			595, 085	$29, 075	1, 766, 323	$70, 654	417, 420	$16, 697
Bowfin	150	$8	817	30				
Burbot	16, 739	1, 069	103, 977	6, 429	1, 101	22	155	3
Carp	1, 928	96	47, 260	2, 401	124	5	1, 579	63
Catfish and bullheads	35, 772	3, 578	83, 472	8, 718			3, 471	174
Cisco			58, 604	5, 446	230, 045	27, 605	149	18
Eels	300	30	5, 100	270				
Lake herring			189, 100	14, 960				
Lake trout			27, 926	4, 179	1, 229	159		
Minnows			109	21				
Mooneye							115	2
Pike (jacks)	1, 781	158	8, 625	855				
Rock bass			1, 192	107				
Sheepshead					468	19	15, 043	602
Sturgeon			38, 255	9, 675	49	13	1, 770	442
Sucker "mullet"	7, 152	441	181, 209	9, 921	5, 835	117	6, 906	138
Sunfish	4, 368	253	12, 440	622				
White bass			802	63	423	21	36, 844	1, 844
Whitefish, common			256, 539	48, 128	647, 043	129, 408	107, 900	21, 580
Yellow perch	6, 947	317	64, 091	4, 303	59, 838	3, 590	18, 516	1, 111
Yellow pike			26, 265	4, 427	249	24	13, 423	1, 300
Total	75, 137	5, 950	1, 700, 868	149, 630	2, 712, 727	231, 637	623, 291	43, 974

Species	Pennsylvania—Continued				Ohio			
	Trap nets		Total		Haul seines		Gill nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike	27, 665	$1, 207	2, 211, 408	$88, 558	5, 327	$266	1, 059, 912	$52, 996
Bowfin					1, 042	10		
Burbot	5, 750	115	7, 006	140	418	8	25, 341	506
Carp	840	34	2, 543	102	953, 950	38, 158	10, 921	437
Catfish and bullheads	5, 500	275	8, 971	449	62, 710	3, 136	287	14
Cisco			230, 194	27, 623	325	39	54, 272	6, 513
Goldfish					51, 076	511	245	2
Lake trout			1, 229	159				
Mooneye			115	2	21, 328	213		
Sauger pike					12, 541	627	501, 090	25, 055
Sheepshead	7, 450	298	22, 961	919	477, 661	14, 330	16, 031	482
Sturgeon	354	89	2, 173	544				
Sucker "mullet"	16, 333	326	29, 074	581	114, 870	2, 297	51, 949	1, 039
White bass	2, 000	100	39, 267	1, 965	29, 894	1, 495	5, 563	278
Whitefish, common			754, 943	150, 988			37, 205	7, 241
Yellow perch	7, 100	426	85, 454	5, 127	5, 063	202	1, 536, 858	61, 474
Yellow pike	9, 855	975	23, 527	2, 299	17, 891	2, 147	66, 927	8, 031
Total	82, 847	3, 845	3, 418, 865	279, 456	1, 754, 096	63, 439	3, 366, 621	164, 068

Lake fisheries of the United States, 1930—Continued

CATCH: BY GEAR—Continued

Species	Ohio—Continued							
	Trammel nets		Lines				Pound nets	
			Hand		Trot			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike							31, 123	$1, 556
Burbot					73	$2	120	2
Carp	87, 648	$3, 506			3, 180	160	10, 615	425
Catfish and bullheads	670	33			16, 302	1, 600	3, 146	157
Mooneye							9, 001	90
Sauger pike			2, 356	$259				
Sheepshead	17, 034	511			3, 612	216	2, 694	81
Sucker, "mullet"	40	1					33, 137	663
White bass					35	2	4, 147	207
Whitefish, common							1, 821	364
Yellow perch			8, 643	951	307	30	639	25
Yellow pike	18	2	11, 117	2, 052	34	5	5, 454	654
Total	105, 410	4, 053	22, 116	3, 262	23, 543	2, 015	101, 897	4, 224

Species	Ohio—Continued							
	Trap nets		Fyke nets		Dip nets		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike	7, 919, 950	$395, 997	153	$8	133	$13	9, 016, 598	$450, 836
Bowfin			635	7			1, 677	17
Burbot	361, 768	7, 235	2, 201	44			389, 921	7, 797
Carp	111, 114	4, 445	63, 777	2, 551	2, 041	102	1, 243, 246	49, 784
Catfish and bullheads	136, 507	6, 825	34, 559	1, 728	112	11	254, 293	13, 504
Cisco	2, 614	314	7	1			57, 218	6, 867
Goldfish	8, 724	87	3, 884	39			63, 929	639
Mooneye	2, 555	26	3, 314	33			36, 198	362
Sauger pike	971, 386	48, 569	20, 380	1, 019	18	2	1, 507, 771	75, 531
Sheepshead	2, 026, 423	60, 693	256, 506	7, 695	53	4	2, 800, 034	84, 012
Sturgeon	217	65					217	65
Sucker, "mullet"	1, 258, 145	25, 163	243, 718	4, 874	214	10	1, 702, 073	34, 047
White bass	328, 822	16, 441	75, 244	3, 762			443, 705	22, 185
Whitefish, common	557, 640	112, 527					596, 666	120, 132
Yellow perch	2, 588, 456	103, 538	46, 908	1, 976	63	6	4, 186, 937	168, 202
Yellow pike	1, 424, 868	170, 984	288, 406	34, 609			1, 814, 715	218, 484
Total	17, 699, 189	952, 909	1, 039, 692	58, 346	2, 634	148	24, 115, 198	1, 252, 464

Species	Michigan							
	Haul seines		Gill nets		Lines			
					Hand		Troll	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bowfin	8, 921	$177					129	$2
Burbot	23	1	10, 673	$326	72	$3		
Carp	1, 067, 508	27, 751	9, 366	244			65	1
Catfish and bullheads	72, 754	5, 840	1, 312	79			66	6
Chubs	1, 010	101	1, 356, 828	137, 891			22	2
Lake herring	67, 777	1, 761	2, 500, 782	62, 520	106	3		
Lake trout	84	12	4, 298, 523	601, 793	9, 285	1, 301	40, 136	5, 619
Pike (jacks)	9, 648	965	12, 216	1, 221	145	15		
Rock bass	1, 881	56	141	4			84	3
Sauger pike	753	45	148, 203	8, 892			291	17
Sheepshead	20, 320	610	346	10				
Sucker "mullet"	592, 763	15, 260	313, 128	7, 832	220	4	22	1
Whitefish:								
Common	48	7	3, 067, 552	469, 335	2, 016	308	259	40
Menominee	904	54	250, 861	15, 052	58	3		
Yellow perch	34, 680	3, 225	201, 643	18, 752				
Yellow pike	156, 772	26, 024	146, 306	24, 287	913	152	778	129
Total	2, 035, 846	81, 889	12, 317, 880	1, 348, 238	12, 815	1, 789	41, 852	5, 820

Lake fisheries of the United States, 1930—Continued

CATCH: BY GEAR—Continued

Species	Michigan—Continued							
	Lines—Trot		Pound nets		Trap nets		Fyke nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bowfin	1, 065	$21	352	$7	3, 145	$63	3, 201	$63
Burbot	1, 058	43	4, 937	179	3, 111	120	1, 380	54
Carp	1, 642	45	31, 791	834	178, 127	4, 632	213, 347	5, 549
Catfish and bullheads	3, 006	230	6, 218	484	56, 873	4, 077	53, 162	2, 957
Chubs	7, 300	730	1, 077	107	12, 173	920	2, 980	298
Cisco			1, 270	33			70	2
Lake herring	4, 330	108	4, 896, 457	122, 411	144, 653	3, 616	17, 049	426
Lake trout	1, 075, 343	150, 548	267, 122	37, 397	106, 374	14, 892	16, 449	2, 303
Mooneye							175	2
Pike (jacks)	1, 207	121	10, 857	1, 086	47, 630	4, 764	25, 327	2, 532
Rock bass			216	6	6, 841	205	6, 546	197
Sauger pike			12, 238	735	62, 668	3, 760	25, 102	1, 506
Sheepshead			17, 472	523	6, 928	208	38, 413	1, 152
Sucker "mullet"	1, 227	28	562, 961	16, 149	1, 781, 491	47, 192	413, 520	10, 778
Whitefish:								
Common	18, 417	2, 818	3, 812, 491	583, 311	890, 929	136, 312	12, 780	1, 956
Menominee			52, 673	3, 161	1, 540	92	973	59
Yellow perch	4, 061	377	75, 872	7, 057	444, 223	41, 313	105, 011	9, 776
Yellow pike	1, 797	299	327, 149	54, 307	493, 343	81, 896	77, 053	12, 790
Total	1, 120, 453	155, 368	10, 081, 153	827, 787	4, 240, 049	344, 062	1, 012, 538	52, 400

Species	Michigan—Continued							
	Dip nets		Spears		Crowfoot bars		Tongs	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bowfin			93	$2				
Burbot	36	$1						
Carp	518	15						
Lake herring	150	4						
Pike (jacks)			310	31				
Smelt	430	4						
Sucker "mullet"	9, 039	181	229	11				
Yellow perch			182	17				
Mussel shells [5]					2, 783, 400	$79, 846	16, 000	$328
Pearls and slugs [5]						6, 444		35
Total	10, 173	205	814	61	2, 783, 400	86, 290	16, 000	363

Species	Michigan—Continued						Indiana—Gill nets	
	Forks		Picks		Total			
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bowfin					16, 906	$335		
Burbot					21, 290	727	15, 798	$934
Carp					1, 502, 364	39, 071		
Catfish and bullheads					193, 391	13, 673		
Chubs					1, 381, 390	140, 049	204, 211	16, 056
Cisco					1, 340	35		
Lake herring					7, 631, 304	190, 849	210, 139	10, 381
Lake trout					5, 813, 316	813, 865	185, 941	24, 908
Mooneye					175	2		
Pike (jacks)					107, 340	10, 735		
Rock bass					15, 709	471		
Sauger pike					249, 255	14, 955		
Sheepshead					83, 479	2, 503		
Smelt					430	4		
Sucker "mullet"					3, 674, 600	97, 436	273	13
Whitefish:								
Common					7, 804, 492	1, 194, 087	8, 565	1, 291
Menominee					307, 009	18, 421		
Yellow perch					865, 672	80, 517	10, 935	944
Yellow pike					1, 204, 111	199, 884		
Mussel shells [5]	306, 200	$6, 759	1, 600, 500	$47, 619	4, 706, 100	134, 552		
Pearls and slugs [5]		698		3, 668		10, 845		
Total	306, 200	7, 457	1, 600, 500	51, 287	35, 579, 673	2, 963, 016	635, 862	54, 527

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[5] From streams tributary to Lakes Michigan, Huron, and Erie. The mussels shells taken in streams tributary to Lakes Huron and Erie, which were inconsiderable, have been included with those taken in Lake Michigan, State of Michigan, to avoid disclosure of private enterprises.

Lake fisheries of the United States, 1930—Continued

CATCH: BY GEAR—Continued

Species	Indiana—Continued							
	Pound nets		Crowfoot bars		Picks		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Buffalofish	400	$28					400	$28
Burbot	175	10					15,973	944
Carp	1,512	72					1,512	72
Chubs							204,211	16,056
Lake herring	44,552	1,012					254,691	11,393
Lake trout	510	75					186,451	24,983
Sucker "mullet"	650	23					923	36
Whitefish, common	2,130	354					10,695	1,645
Yellow perch	1,899	184					12,834	1,128
Mussel shells [5]			284,000	$13,900	188,000	$9,300	472,000	23,200
Pearls and slugs [5]				687		463		1,150
Total	51,828	1,758	284,000	14,587	188,000	9,763	1,159,690	80,635

Species	Illinois						Wisconsin—Haul seines	
	Gill nets		Pound nets		Total			
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Carp							239,730	$7,191
Catfish and bullheads							9,569	575
Chubs	538,192	$46,637	2,000	$180	540,192	$46,817		
Lake herring	65,000	1,400			65,000	1,400		
Lake trout	382,442	42,104	500	60	382,942	42,164		
Yellow perch	75,500	6,710	1,000	100	76,500	6,810		
Total	1,061,134	96,851	3,500	340	1,064,634	97,191	249,299	7,766

Species	Wisconsin—Continued					
	Gill nets		Lines, trot		Pound nets	
	Pounds	Value	Pounds	Value	Pounds	Value
Burbot	45,366	$459			21,518	$213
Carp	119,865	3,596				
Catfish and bullheads	9,569	574				
Chubs	2,624,737	176,226			832,952	54,213
Lake herring	2,226,129	40,286			3,630,173	68,242
Lake trout	1,535,606	141,391	510,724	$43,500	744,826	63,483
Pike (jacks)	9,028	903			38,828	3,883
Sheepshead	364	11			709	21
Sucker "mullet"	502,053	20,330			251,027	10,165
Whitefish:						
Common	429,657	49,399			143,220	16,467
Menominee	45,906	5,041			11,666	1,392
Yellow perch	409,202	20,460			204,600	10,230
Yellow pike	13,454	622			7,217	362
Total	7,970,936	459,298	510,724	43,500	5,886,736	228,671

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[5] From streams tributary to Lakes Michigan, Huron, and Erie. The mussel shells taken in streams tributary to Lakes Huron and Erie, which were inconsiderable, have been included with those taken in Lake Michigan, State of Michigan, to avoid disclosure of private enterprise.

Lake fisheries of the United States, 1930—Continued

CATCH: BY GEAR—Continued

Species	Wisconsin—Continued							
	Fyke nets		Crawfish pots		Crowfoot bars		Forks	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Burbot	21, 517	$212						
Carp	120, 118	3, 604						
Catfish and bullheads	57, 667	3, 460						
Chubs	479, 418	33, 900						
Lake herring	117, 440	1, 761						
Pike (jacks)	19, 413	1, 941						
Sheepshead	1, 457	44						
Sucker "mullet"	251, 026	10, 165						
Whitefish, common	71, 609	8, 233						
Yellow perch	614, 638	30, 732						
Yellow pike	15, 262	763						
Crawfish			51, 273	$2, 514				
Mussel shells [5]					70, 918	$1, 666	35, 457	$832
Pearls and slugs [5]						277		137
Total	1, 769, 565	94, 815	51, 273	2, 514	70, 918	1, 943	35, 457	969

Species	Wisconsin—Total		Minnesota			
			Gill nets		Lines, trot	
	Pounds	Value	Pounds	Value	Pounds	Value
Burbot	88, 401	$884	15, 573	$195		
Carp	479, 713	14, 391				
Catfish and bullheads	76, 805	4, 609				
Chubs	3, 937. 107	264, 339	41, 386	1, 072		
Lake herring	5, 973, 742	110, 289	8, 367, 663	190, 210		
Lake trout	2, 791, 156	248, 374	196, 108	27, 450	97, 898	$13, 702
Pike (jacks)	67, 269	6, 727	227, 470	12, 896		
Sauger pike			49, 068	2, 709		
Sheepshead	2, 530	76				
Sturgeon			652	195		
Sucker "mullet"	1, 004, 106	40, 660	112, 388	2, 344		
Tullibee			604, 016	15, 080		
Whitefish.						
Common	644, 486	74, 099	98, 888	9, 323		
Menominee	57, 572	6, 433	7, 554	579		
Yellow perch	1, 228, 440	61, 422	2, 441	122		
Yellow pike	35, 933	1, 747	470, 152	46, 155		
Crawfish	51, 273	2, 514				
Mussel shells [5]	106, 375	2, 498				
Pearls and slugs [5]		414				
Total	16, 544, 908	839, 476	10, 193, 359	308, 330	97, 898	13, 702

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[5] From streams tributary to Lakes Michigan, Huron, and Erie. The mussel shells taken in streams tributary to Lakes Huron and Erie, which were inconsiderable, have been included with those taken in Lake Michigan, State of Michigan, to avoid disclosure of private enterprise.

Lake fisheries of the United States, 1930—Continued

CATCH: BY GEAR—Continued

Species	Minnesota—Continued					
	Pound nets		Fyke nets		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Buffalofish	235	$4	472	$10	707	$14
Burbot					15, 573	195
Carp	5, 489	109	10, 980	220	16, 469	329
Catfish and bullheads	7, 985	678	15, 971	1, 358	23, 956	2, 036
Chubs	57, 103	1, 111			98, 489	2, 183
Crappie	3, 165	559	396	72	3, 561	631
Goldeye			55	2	55	2
Lake herring					8, 367, 663	190, 210
Lake trout					294, 006	41, 152
Pike (jacks)	63, 116	3, 156	50, 584	3, 288	341, 170	19, 340
Sauger pike	8, 178	451	16, 356	903	73, 602	4, 063
Sturgeon	977	293	394	118	2, 023	606
Sucker "mullet"	13, 900	278	27, 800	556	154, 088	3, 178
Tullibee	301, 007	7, 525			905, 023	22, 605
Whitefish:						
Common	5, 514	606			104, 402	9, 929
Menominee					7, 554	579
Yellow perch	19, 292	963	36, 448	1, 824	58, 181	2, 909
Yellow pike	171, 056	16, 675	256, 076	25, 608	897, 284	88, 438
Total	657, 017	32, 408	415, 532	33, 959	11, 363, 806	388, 399

CATCH: BY LAKES

Species	Lake Ontario—New York		Lake Erie					
			New York		Pennsylvania		Ohio	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike	30, 753	$3, 222	564, 332	$25, 853	2, 211, 408	$88, 558	9, 016, 598	$450, 836
Bowfin	817	30					1, 677	17
Burbot	95, 612	6, 144	8, 365	285	7, 006	140	389, 921	7, 797
Carp	26, 204	1, 145	21, 056	1, 256	2, 543	102	1, 243, 246	49, 784
Catfish and bullheads	80, 246	8, 429	3, 226	289	8, 971	449	254, 293	13, 504
Cisco			58, 604	5, 446	230, 194	27, 623	57, 218	6, 867
Eels	5, 100	270						
Goldfish							63, 929	639
Lake herring	189, 100	14, 960						
Lake trout	24, 082	3, 626	3, 844	553	1, 229	159		
Minnows	109	21						
Mooneye					115	2	36, 198	362
Pike (jacks)	8, 625	855						
Rock bass	705	65	487	42				
Sauger pike							1, 507, 771	75, 531
Sheepshead					22, 961	919	2, 800, 034	84, 012
Sturgeon	24, 483	6, 351	13, 772	3, 324	2, 173	544	217	65
Sucker "mullet"	50, 617	2, 061	130, 592	7, 860	29, 074	581	1, 702, 073	34, 047
Sunfish	12, 440	622						
White bass	78	15	724	48	39, 267	1, 965	443, 705	22, 185
Whitefish, common	87, 400	12, 584	169, 139	35, 544	754, 943	150, 988	596, 666	120, 132
Yellow perch	29, 943	1, 943	34, 148	2, 360	85, 454	5, 127	4, 186, 937	168, 202
Yellow pike	15, 583	2, 846	10, 682	1, 581	23, 527	2, 299	1, 814, 715	218, 484
Total	681, 897	65, 189	1, 018, 971	84, 441	3, 418, 865	279, 456	24, 115, 198	1, 252, 446

Lake fisheries of the United States, 1930—Continued

CATCH: BY LAKES—Continued

Species	Lake Erie—Continued				Lake Huron—Michigan		Lake Michigan—Michigan	
	Michigan		Total					
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike			11, 792, 338	565, 247				
Bowfin	899	$18	2, 576	$35	16, 007	$317		
Burbot	150	6	405, 442	8, 228	6, 879	276	13, 193	$402
Carp	594, 339	15, 453	1, 861, 184	66, 595	897, 014	23, 322	10, 264	281
Catfish and bullheads	56, 141	3, 195	322, 631	17, 437	134, 978	10, 303	1, 418	99
Chubs	12, 800	1, 280	12, 800	1, 280	506, 420	50, 344	743, 526	76, 561
Cisco	1, 340	35	347, 356	39, 971				
Goldfish			63, 929	639				
Lake herring					4, 748, 345	118, 709	683, 963	17, 098
Lake trout	10	1	5, 083	713	1, 786, 529	250, 115	2, 372, 546	332, 155
Mooneye	175	2	36, 488	366				
Pike (jacks)	8, 183	818	8, 183	818	67, 250	6, 726	28, 205	2, 821
Rock bass	1, 721	52	2, 208	94	13, 200	396	788	23
Sauger pike	22, 999	1, 380	1, 530, 770	76, 911	198, 254	11, 894	23, 938	1, 437
Sheepshead	60, 586	1, 818	2, 883, 581	86, 749	5, 859	174	17, 034	511
Smelt							430	4
Sturgeon			16, 162	3, 933				
Sucker "mullet"	154, 047	5, 275	2, 015, 786	47, 763	2, 676, 949	72, 077	765, 888	18, 099
White bass			483, 696	24, 198				
Whitefish:								
Common	1, 264	193	1, 522, 012	306, 857	3, 379, 776	517, 105	4, 218, 851	645, 485
Menominee	91	5	91	5	109, 236	6, 554	186, 477	11, 189
Yellow perch	33, 578	3, 123	4, 340, 117	178, 812	714, 949	66, 499	112, 762	10, 487
Yellow pike	38, 784	6, 439	1, 887, 708	228, 803	1, 114, 999	185, 091	41, 666	6, 917
Mussel shells [5]							4, 706, 100	134, 552
Pearls and slugs [5]								10, 845
Total	987, 107	39, 093	29, 540, 141	1, 655, 454	16, 376, 644	1, 319, 902	13, 927, 049	1, 268, 966

Species	Lake Michigan—Continued							
	Indiana		Illinois		Wisconsin		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Buffalofish	400	$28					400	$28
Burbot	15, 973	944			86, 070	$849	115, 236	2, 195
Carp	1, 512	72			479, 461	14, 383	491, 237	14, 736
Catfish and bullheads					76, 550	4, 594	77, 968	4, 693
Chubs	204, 211	16, 056	540, 192	$46, 817	3, 529, 462	223, 575	5, 017, 391	363, 009
Lake herring	254, 691	11, 393	65, 000	1, 400	5, 269, 098	99, 719	6, 272, 752	129, 610
Lake trout	186, 451	24, 983	382, 942	42, 164	2, 316, 085	186, 615	5, 258, 024	585, 917
Pike (jacks)					58, 241	5, 824	86, 446	8, 645
Rock bass							788	23
Sauger pike							23, 938	1, 437
Sheepshead					1, 821	55	18, 855	566
Smelt							430	4
Sucker "mullet"	923	36			1, 004, 106	40, 660	1, 770, 917	58, 795
Whitefish:								
Common	10, 695	1, 645			559, 028	63, 844	4, 788, 574	710, 974
Menominee					35, 000	4, 176	221, 477	15, 365
Yellow perch	12, 834	1, 128	76, 500	6, 810	1, 227, 604	61, 380	1, 429, 700	79, 805
Yellow pike					21, 710	1, 086	63, 376	8, 003
Crawfish					51, 273	2, 514	51, 273	2, 514
Mussel shells [5]	472, 000	23, 200			106, 375	2, 498	5, 284, 475	160, 250
Pearls and slugs [5]		1, 150				414		12, 409
Total	1, 159, 690	80, 635	1, 064, 634	97, 191	14, 821, 884	712, 186	30,973,257	2, 158, 978

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[5] From streams tributary to Lakes Michigan, Huron, and Erie. The mussel shells taken in streams tributary to Lakes Huron and Erie, which were inconsiderable, have been included with those taken in Lake Michigan, State of Michigan, to avoid disclosure of private enterprise.

Lake fisheries of the United States, 1930—Continued

CATCH: BY LAKES—Continued

Species	Lake Superior					
	Michigan		Wisconsin		Minnesota	
	Pounds	Value	Pounds	Value	Pounds	Value
Burbot	1,068	$43	2,331	$35		
Carp	747	15	252	8		
Catfish and bullheads	854	76	255	15		
Chubs	118,644	11,864	407,645	40,764	268	$16
Lake herring	2,198,996	55,042	704,644	10,570	8,367,663	190,210
Lake trout	1,654,231	231,594	475,071	61,759	293,696	41,106
Pike (jacks)	3,702	370	9,028	903	70	6
Sauger pike	4,064	244				
Sheepshead			709	21		
Sucker "mullet"	77,716	1,985			8,575	267
Whitefish:						
Common	204,601	31,304	85,458	10,255	4,620	728
Menominee	11,205	673	22,572	2,257	7,554	579
Yellow perch	4,383	408	836	42		
Yellow pike	8,662	1,437	14,223	661		
Total	4,288,873	335,055	1,723,024	127,290	8,682,446	232,912

Species	Lake Superior—Total		Lake of the Woods, Rainy Lake, and Namakan Lake—Minnesota		Total, all lakes	
	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike					11,823,091	$568,469
Bowfin					19,400	382
Buffalofish			707	$14	1,107	42
Burbot	3,399	$78	15,573	195	642,141	17,116
Carp	999	23	16,469	329	3,293,107	106,150
Catfish and bullheads	1,109	91	23,956	2,036	640,888	42,989
Chubs	526,557	52,644	98,221	2,167	6,161,389	469,444
Cisco					347,356	39,971
Crappie			3,561	631	3,561	631
Eels					5,100	270
Goldeye			55	2	55	2
Goldfish					63,929	639
Lake herring	11,271,303	255,822			22,481,500	519,101
Lake trout	2,422,998	344,459	310	46	9,497,026	1,174,876
Minnows					109	21
Mooneye					36,488	366
Pike (jacks)	12,800	1,279	341,100	19,334	524,404	37,657
Rock bass					16,901	578
Sauger pike	4,064	244	73,602	4,063	1,830,628	94,549
Sheepshead	709	21			2,909,004	87,510
Smelt					430	4
Sturgeon			2,023	606	42,668	10,890
Sucker "mullet"	86,291	2,252	145,513	2,911	6,746,073	185,859
Sunfish					12,440	622
Tullibee			905,023	22,605	905,023	22,605
White bass					483,774	24,213
Whitefish:						
Common	294,679	42,287	99,782	9,201	10,172,223	1,599,008
Menominee	41,331	3,509			372,135	25,433
Yellow perch	5,219	450	58,181	2,909	6,578,109	330,418
Yellow pike	22,885	2,098	897,284	88,438	4,001,835	515,279
Crawfish					51,273	2,514
Mussel shells [5]					5,284,475	160,250
Pearls and slugs [5]						12,409
Total	14,694,343	695,257	2,681,360	155,487	94,947,642	6,050,267

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[5] From streams tributary to Lakes Michigan, Huron, and Erie. The mussel shells taken in streams tributary to Lakes Huron and Erie, which were inconsiderable, have been included with those taken in Lake Michigan, State of Michigan, to avoid disclosure of private enterprise.

Industries related to the fisheries of the Lake States, 1930

Item	New York	Pennsylvania	Ohio	Michigan
	Number	*Number*	*Number*	*Number*
Transporting:				
Persons engaged		3	18	16
Vessels—				
Steam		1	2	
Net tonnage		17	41	
Motor			6	7
Net tonnage			66	95
Total vessels		1	8	7
Total net tonnage		17	107	95
Wholesale and manufacturing:				
Establishments	16	7	34	59
Persons engaged—				
Proprietors	21	14	56	75
Salaried employees	28	6	58	55
Wage earners:				
Average for season	67	57	199	246
Average for year	65	57	191	209
Salaries and wages paid	$144, 572	$93, 733	$486, 247	$442, 746
Manufactured products [1]	$98, 054	$74, 031	$268, 025	$270, 712
Fishermen's prepared products:				
Persons engaged	8	3	5	162
Products	$356	$98	$5, 400	$81, 876

Item	Indiana	Illinois	Wisconsin	Minnesota	Total
	Number	*Number*	*Number*	*Number*	*Number*
Transporting:					
Persons engaged			13	26	76
Vessels—					
Steam			1	2	6
Net tonnage			28	107	193
Motor			1	2	16
Net tonnage			19	69	249
Total vessels			2	4	22
Total net tonnage			47	176	442
Wholesale and manufacturing:					
Establishments	4	47	40	21	228
Persons engaged—					
Proprietors	4	66	49	21	306
Salaried employees	1	166	34	27	375
Wage earners:					
Average for season	5	366	250	140	1, 330
Average for year	5	327	145	103	1, 102
Salaries and wages paid	$11, 500	$1, 353, 091	$280, 256	$173, 843	$2, 985, 988
Manufactured products [1]	$20, 555	$631, 051	$298, 487	$102, 290	$1, 763, 205
Fishermen's prepared products:					
Persons engaged	3	20	153	212	566
Products	$2, 750	$43, 632	$44, 178	$78, 743	$257, 033

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[1] These production figures are not comparable with those shown in previous bulletins, since packaged fresh and frozen fishery products are now included.

NOTE.—Of the total number of persons employed on transporting craft, 21 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 545 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of New York, 1930

WHOLESALE AND MANUFACTURING

Operating Units, Salaries, and Wages

Item	Chautauqua, Jefferson, and Oswego Counties	Erie County	Total
Establishments	5	11	16
Persons engaged:			
Proprietors	5	16	21
Salaried employees	7	21	28
Wage earners—			
Average for season	14	53	67
Average for year	14	51	65
Paid to salaried employees	$9, 950	$59, 301	$69, 251
Paid to wage earners	13, 250	62, 071	75, 321
Total salaries and wages	23, 200	121, 372	144, 572

Products Manufactured

Item		Quantity	Value
Blue pike, fresh fillets	pounds	50, 200	$12, 332
Unclassified products:			
Smoked [1]	do	313, 100	84, 690
Miscellaneous [2]		(3)	1, 032
Total			98, 054

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 8]

Sturgeon roe, salted	pounds	330	$356

[1] Includes smoked eels, salmon, sturgeon, tullibee, and whitefish.
[2] Includes pickled herring, cisco caviar, salted cisco, and whitefish.
[3] Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 8 have also been included as fishermen. This fact should be considered in computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Pennsylvania, 1930

TRANSPORTING IN ERIE COUNTY

Persons engaged on vessels	3
Vessels, steam	1
Net tonnage	17

WHOLESALE AND MANUFACTURING IN ERIE COUNTY

Operating Units, Salaries, and Wages

Establishments	7
Persons engaged:	
Proprietors	14
Salaried employees	6
Wage earners—	
Average for season	57
Average for year	57
Paid to salaried employees	$31, 845
Paid to wage earners	61, 888
Total salaries and wages	93, 733

Industries related to the lake fisheries of Pennsylvania, 1930—Continued

WHOLESALE AND MANUFACTURING IN ERIE COUNTY—Continued

Products Manufactured

Item	Quantity	Value
Blue pike, frozen fillets .... pounds..	111, 250	$22, 250
Miscellaneous, fresh fillets [1] .... do....	251, 086	51, 781
Total	362, 336	74, 031

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 3]

Sturgeon roe, salted .... pounds..	78	$98

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[1] Includes fresh blue pike and yellow perch fillets.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 3 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 3 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Ohio, 1930

TRANSPORTING

Item	Erie County	Lake County	Lucas County	Ottawa County	Total
	Number	*Number*	*Number*	*Number*	*Number*
Persons engaged on vessels	10	3	2	3	18
Vessels:					
Steam—					
5 to 10 tons				1	1
30 to 40 tons		1			1
Total		1		1	2
Net tonnage		31		10	41
Motor—					
5 to 10 tons	3		1		4
11 to 20 tons	2				2
Total	5		1		6
Net tonnage	60		6		66
Total vessels	5	1	1	1	8
Total net tonnage	60	31	6	10	107

WHOLESALE AND MANUFACTURING

Operating Units, Salaries, and Wages

Item	Ashtabula and Lake Counties	Cuyahoga and Lorain Counties	Erie County	Lucas and Ottawa Counties	Total
Establishments	7	11	11	5	34
Persons engaged:					
Proprietors	8	17	23	8	56
Salaried employees	7	19	22	10	58
Wage earners—					
Average for season	25	87	70	17	199
Average for year	25	79	70	17	191
Paid to salaried employees	$20, 987	$64, 787	$89, 732	$42, 688	$218, 194
Paid to wage earners	32, 728	97, 152	113, 952	24, 221	268, 053
Total salaries and wages	53, 715	161, 939	203, 684	66, 909	486, 247

Industries related to the lake fisheries of Ohio, 1930—Continued

WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Blue pike, fresh fillets pounds	302,046	$60,659
Salmon, smoked do	176,250	67,950
Sturgeon, smoked do	11,646	7,535
Tullibee, smoked do	281,898	58,580
Whitefish, smoked do	58,741	17,982
Yellow perch, fresh fillets do	132,993	27,369
Miscellaneous [1] do	111,069	27,950
Total	1,074,643	268,025

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 5]

Item	Quantity	Value
Blue pike, fresh fillets pounds	19,500	$3,900
Yellow perch, fresh fillets do	5,700	1,500
Total	25,200	5,400

[1] Includes frozen fillets of blue pike, smoked cisco and sablefish.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 16 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 4 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Michigan, 1930

TRANSPORTING

Item	Cheboygan County	Mackinac County	Total
	Number	*Number*	*Number*
Persons engaged on vessels	14	2	16
Vessels, motor:			
5 to 10 tons	3		3
11 to 20 tons	1	1	2
21 to 30 tons	2		2
Total	6	1	7
Net tonnage	81	14	95

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Bay and Arenac Counties	Berrien and Ottawa Counties	Cheboygan and Alpena Counties	Charlevoix and Grand Traverse Counties	Huron County
Establishments	7	6	6	6	5
Persons engaged:					
Proprietors	12	8	5	3	7
Salaried employees	7		6	5	3
Wage earners—					
Average for season	26	26	12	8	21
Average for year	18	23	11	8	21
Paid to salaried employees	$20,600	$10,150	$9,650	$9,380	$9,500
Paid to wage earners	21,050	28,900	9,467	8,050	23,200
Total salaries and wages	41,650	39,050	19,117	17,430	32,700

Industries related to the lake fisheries of Michigan, 1930—Continued

WHOLESALE AND MANUFACTURING—Continued

OPERATING UNITS, SALARIES, AND WAGES—Continued

Item	Mackinac, Chippewa, Delta, and Schoolcraft Counties	Menominee, Houghton, and Marquette Counties	Newaygo, Mason, and Muskegon Counties	Wayne and St. Clair Counties	Total
Establishments	9	3	3	14	59
Persons engaged:					
Proprietors	9	3	4	24	75
Salaried employees	6	3	----------	25	55
Wage earners—					
Average for season	25	34	22	72	246
Average for year	21	24	22	61	209
Paid to salaried employees	$15,990	$11,900	$2,000	$118,800	$207,970
Paid to wage earners	23,870	24,440	22,700	73,099	234,776
Total salaries and wages	39,860	36,340	24,700	191,899	442,746

PRODUCTS MANUFACTURED

Item	Quantity	Value
Chubs, smoked ... pounds	407,700	$106,660
Lake herring:		
Salted ... do	2,423,040	81,730
Smoked ... do	9,600	1,780
Lake trout, smoked ... do	34,900	7,860
Whitefish, smoked ... do	49,800	11,590
Fresh-water mussel button blanks ... gross	156,740	28,122
Miscellaneous [1]	(2)	32,970
Total	----------	270,712

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 162]

Chubs, smoked ... pounds	22,000	$6,500
Lake herring:		
Salted ... do	1,034,466	29,857
Smoked ... do	76,560	7,956
Lake trout:		
Salted ... do	168,750	25,312
Smoked ... do	8,200	2,275
Whitefish:		
Salted ... do	100,000	7,000
Smoked ... do	9,900	2,500
Caviar, fresh ... do	950	476
Total	1,420,826	81,876

[1] Includes smoked carp, Menominee, salmon, Russian sturgeon, and tullibee; and fresh fillets of lake trout and whitefish.

[2] Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 2 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products 162 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Indiana, 1930

WHOLESALE AND MANUFACTURING IN LA PORTE COUNTY

OPERATING UNITS, SALARIES, AND WAGES

Establishments	4
Persons engaged:	
Proprietors	4
Salaried employees	1
Wage earners—	
Average for season	5
Average for year	5
Paid to salaried employees	$5,500
Paid to wage earners	6,000
Total salaries and wages	11,500

PRODUCTS MANUFACTURED

Item	Quantity	Value
Chubs, smoked ... pounds	74,600	$18,650
Miscellaneous [1]	(2)	1,905
Total		20,555

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 3]

Chubs, smoked ... pounds	7,500	$1,875
Lake trout, smoked ... do	2,500	625
Whitefish, smoked ... do	1,000	250
Total	11,000	2,750

[1] Includes smoked lake trout and fish oil.
[2] Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 3 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Illinois, 1930

WHOLESALE AND MANUFACTURING IN COOK COUNTY

OPERATING UNITS, SALARIES, AND WAGES

Establishments	47
Persons engaged:	
Proprietors	66
Salaried employees	166
Wage earners—	
Average for season	366
Average for year	327
Paid to salaried employees	$750,880
Paid to wage earners	602,211
Total salaries and wages	1,353,091

Industries related to the lake fisheries of Illinois, 1930—Continued

WHOLESALE AND MANUFACTURING IN COOK COUNTY—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Chubs, smoked ... pounds	772, 600	$189, 056
Eels, smoked ... do	20, 334	6, 810
Lake trout, smoked ... do	23, 390	5, 654
Salmon, smoked ... do	610, 330	221, 100
Tullibee, smoked ... do	437, 800	86, 856
Miscellaneous [1] ... do	602, 366	121, 575
Total	2, 466, 820	631, 051

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 20]

Item	Quantity	Value
Chubs, smoked ... pounds	131, 300	$34, 997
Eels, smoked ... do	400	180
Lake herring, smoked ... do	20, 000	2, 000
Lake trout, smoked ... do	15, 000	4, 500
Sturgeon, smoked ... do	2, 650	1, 430
Whitefish, smoked ... do	1, 500	525
Total	170, 850	43, 632

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[1] Includes smoked buffalofish, butterfish, carp, ciscoes, lake herring, flounders, sea herring, sturgeon, and shad; and pickled sea herring.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State.

Industries related to the lake fisheries of Wisconsin, 1930

TRANSPORTING

Item	Bayfield County	Menominee County	Total
	Number	*Number*	*Number*
Persons engaged on vessels	10	3	13
Vessels:			
Motor		1	1
Net tonnage		19	19
Steam	1		1
Net tonnage	28		28
Total	1	1	2
Net tonnage	28	19	47

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Bayfield and Ashland Counties	Brown County	Douglas County	Manitowoc and Waupaca Counties	Marinette County	Milwaukee County	Ozaukee and Kenosha Counties	Total
Establishments	4	7	4	3	3	15	4	40
Persons engaged:								
Proprietors	3	9	4	3	3	18	9	49
Salaried employees	4	12		2		14	2	34
Wage earners—								
Average for season	55	67	8	25	17	48	30	250
Average for year	14	36	7	9	10	43	26	145
Paid to salaried employees	$8, 650	$26, 621	$3, 900	$1, 050		$34, 200	$42, 708	$117, 129
Paid to wage earners	15. 840	45, 328	5, 000	8, 855	$10, 754	54, 250	23, 100	163, 127
Total salaries and wages	24, 490	71, 949	8, 900	9, 905	10, 754	88, 450	65, 808	280, 256

Industries related to the lake fisheries of Wisconsin, 1930—Continued

WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Chubs, smoked pounds	528, 472	$102, 991
Lake herring:		
Salted do	922, 000	28, 413
Spiced do	95, 000	13, 350
Smoked do	302, 280	26, 934
Lake trout, smoked do	198, 281	42, 978
Salmon, smoked do	85, 760	14, 937
Tullibee, smoked do	78, 235	15, 272
Whitefish, smoked do	81, 449	16, 640
Miscellaneous [1]	([2])	36, 972
Total		298, 487

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 153]

Item	Quantity	Value
Chubs, smoked pounds	20, 000	$4, 400
Lake herring, salted do	1, 444, 497	39, 228
Lake trout, smoked do	2, 500	550
Total	1, 466, 997	44, 178

[1] Includes pickled lake herring and lake trout; salted lake trout and whitefish; fresh fillets of blue pike, jack pike, sauger, and yellow perch; canned whitefish caviar; poultry feed and lime from mussel shells; and novelties and button blanks from fresh-water mussel shells.

[2] Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 153 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Minnesota, 1930

TRANSPORTING

Item	Roseau County	St. Louis County	Total
	Number	*Number*	*Number*
Persons engaged on vessels	6	20	26
Vessels:			
Steam—			
31 to 40 tons		1	1
71 to 80 tons		1	1
Total		2	2
Net tonnage		107	107
Motor—			
5 to 10 tons	1		1
61 to 70 tons	1		1
Total	2		2
Net tonnage	69		69
Total vessels	2	2	4
Total net tonnage	69	107	176

Industries related to the lake fisheries of Minnesota, 1930—Continued

WHOLESALE AND MANUFACTURING

Operating Units, Salaries, and Wages

Item	Cook, Lake, Lake of the Woods, Koochiching and Roseau Counties	St. Louis County	Total
Establishments	7	14	21
Persons engaged:			
Proprietors	6	15	21
Salaried employees	6	21	27
Wage earners—			
Average for season	33	107	140
Average for year	15	88	103
Paid to salaried employees	$9,760	$48,760	$58,520
Paid to wage earners	17,672	97,651	115,323
Total salaries and wages	27,432	146,411	173,843

Products Manufactured

Item	Quantity	Value
Tullibee, smoked pounds	59,000	$6,000
Unclassified products:		
Salted [1] do	448,200	44,038
Smoked [2] do	171,400	52,252
Total	678,600	102,290

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 212]

Lake herring:		
Salted pounds	2,195,500	$65,873
Smoked do	102,000	10,200
Lake trout, smoked do	8,500	2,550
Whitefish, smoked do	1,200	120
Total	2,307,200	78,743

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[1] Includes salted Alaska herring, alewives, lake herring, mackerel, salmon, lake trout, and sablefish.

[2] Includes smoked ciscoes, lake herring, salmon fillets, and lake herring fillets.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 212 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Mussel-shell industry of the lake fisheries, 1930 [1]

OPERATING UNITS

Item	Lake Michigan						
	St. Joseph River			Grand River	Kalamazoo River	Muskegon River	Elkhart River
	Michigan	Indiana	Total	Michigan	Michigan	Michigan	Indiana
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen—On boats and shore, casual	250	30	280	306	50	140	12
Boats:							
Motor	80	10	90	164	20	70	12
Other	170	20	190	149	30	70	
Apparatus:							
Crowfoot bars	80	10	90	137	20		12
Tongs				12			
Forks				98	25		
Picks	230	30	260	176	50	140	12

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[1] The mussel-shell industry of streams tributary to Lakes Huron and Erie, which was inconsiderable, has been included with the St. Joseph River tributary to Lake Michigan, State of Michigan to avoid disclosure of private enterprise.

Mussel-shell industry of the lake fisheries, 1930—Continued

OPERATING UNITS—Continued

Item	Lake Michigan—Continued						
	Pigeon River	Fox River	Grand River	Total, all rivers			Grand total
	Indiana	Wisconsin	Wisconsin	Michigan	Indiana	Wisconsin	
Fishermen—On boats and shore:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Regular		4	5			9	9
Casual	18	12	6	746	60	18	824
Total	18	16	11	746	60	27	833
Boats:							
Motor	8	12	5	334	30	17	381
Other	10	4	6	419	30	10	459
Apparatus:							
Crowfoot bars	8	12	6	237	30	18	285
Tongs				12			12
Forks		8	5	123		13	136
Picks	18			596	60		656

CATCH

Gear and product	Lake Michigan							
	St. Joseph River						Grand River, Mich.	
	Michigan		Indiana		Total			
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
By crowfoot bars:								
Mussel shells	612, 000	$31, 518	180, 000	$9, 750	792, 000	$41, 268	1, 947, 400	$40, 208
Pearls and slugs		1, 500		450		1, 950		4, 480
By tongs:								
Mussel shells							16, 000	328
Pearls and slugs								35
By forks:								
Mussel shells							278, 200	5, 744
Pearls and slugs								640
By picks:								
Mussel shells	401, 000	21, 502	120, 000	6, 500	521, 000	28, 002	679, 500	14, 032
Pearls and slugs		1, 000		300		1, 300		1, 280
Total	1, 013, 000	55, 520	300, 000	17, 000	1, 313, 000	72, 520	2, 921, 100	66, 747

Gear and product	Lake Michigan—Continued							
	Kalamazoo River, Mich.		Muskegon River, Mich.		Elkhart River, Ind.		Pigeon River, Ind.	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Vaule
By crowfoot bars:								
Mussel shells	224, 000	$8, 120			54, 000	$2, 025	50, 000	$2, 125
Pearls and slugs		464				112		125
By forks:								
Mussel shells	28, 000	1, 015						
Pearls and slugs		58						
By picks:								
Mussel shells	28, 000	1, 015	492, 000	$11, 070	18, 000	675	50, 000	2, 125
Pearls and slugs		58		1, 330		38		125
Total	280, 000	10, 730	492, 000	12, 400	72, 000	2, 850	100, 000	4, 500

Mussel-shell industry of the lake fisheries, 1930—Continued

CATCH—Continued

Gear and product	Lake Michigan—Continued					
	Fox River, Wis.		Grand River, Wis.		Total, all rivers—Michigan	
	Pounds	Value	Pounds	Value	Pounds	Value
By crowfoot bars:						
Mussel shells	36,784	$1,143	34,134	$523	2,783,400	$79,864
Pearls and slugs	----------	190	----------	87	----------	6,444
By tongs:						
Mussel shells	----------	--------	----------	--------	16,000	328
Pearls and slugs	----------	--------	----------	--------	----------	35
By forks:						
Mussel shells	18,391	571	17,066	261	306,200	6,759
Pearls and slugs	----------	95	----------	42	----------	698
By picks:						
Mussel shells	----------	--------	----------	--------	1,600,500	47,619
Pearls and slugs	----------	--------	----------	--------	----------	3,668
Total	55,175	1,999	51,200	913	4,706,100	145,397

Gear and product	Lake Michigan—Continued					
	Total, all rivers—Continued				Grand total	
	Indiana		Wisconsin			
	Pounds	Value	Pounds	Value	Pounds	Value
By crowfoot bars:						
Mussel shells	284,000	$13,900	70,918	$1,666	3,138,318	$95,412
Pearls and slugs	----------	687	----------	277	----------	7,408
By tongs:						
Mussel shells	----------	----------	----------	----------	16,000	328
Pearls and slugs	----------	----------	----------	----------	----------	35
By forks:						
Mussel shells	----------	----------	35,457	832	341,657	7,591
Pearls and slugs	----------	----------	----------	137	----------	835
By picks:						
Mussel shells	188,000	9,300	----------	----------	1,788,500	56,919
Pearls and slugs	----------	463	----------	----------	----------	4,131
Total	472,000	24,350	106,375	2,912	5,284,475	172,659

BUTTON BLANK MANUFACTURING

Item	Number	Value
Establishments	4	----------
Persons engaged:		
Proprietors	4	----------
Salaried employees	1	----------
Wage earners—		
Average for season	50	----------
Average for year	35	----------
Paid to salaried employees	----------	$2,150
Paid to wage earners	----------	32,455
Total salaries and wages	----------	34,605
Products—Button blanks, gross	176,740	36,812
By-products—Miscellaneous	----------	424

FISHERIES OF THE MISSISSIPPI RIVER AND TRIBUTARIES

Catch of the fisheries of the Mississippi River and tributaries, 1922

Species	Pounds	Value
Black bass	73, 554	$10, 874
Bowfin	190, 073	6, 078
Buffalofish	17, 267, 177	1, 013, 692
Carp	18, 338, 371	872, 128
Catfish and bullheads	8, 092, 690	713, 461
Crappie	512, 423	49, 338
Drum, fresh-water, or sheepshead	5, 260, 892	290, 480
Eels	16, 060	1, 057
Mooneye	3, 450	166
Paddlefish or spoonbill eat	1, 398, 991	132, 545
Paddlefish caviar	12, 398	29, 546
Pike and pickerel	20, 100	1, 850
Pike perch (sauger)	4, 745	768
Pike perch (wall-eyed)	24, 650	3, 750
Quillback or "American carp"	765, 389	59, 221
Rock bass	2, 738	312
Sturgeon, lake	10, 953	1, 369
Sturgeon, shovelnose	227, 365	19, 323
Sturgeon, shovelnose, caviar	1, 880	2, 615
Sturgeon, shovelnose, eggs	449	764
Sucker "mullet"	699, 539	63, 028
Sunfish	374, 533	24, 955
White bass	64, 624	5, 500
Yellow bass	7, 500	600
Yellow perch	22, 250	1, 904
Other fish	73, 275	4, 917
Shrimp	147, 482	14, 570
Crawfish	7, 890	759
Frogs	231, 761	20, 410
Turtles	96, 743	2, 772
Alligator hides	15, 616	2, 673
Mussel shells	51, 768, 173	1, 050, 592
Pearls		46, 124
Slugs		55, 380
Total	105, 733, 734	4, 503, 521

FISHERIES OF ALASKA[13]

During 1931 the fisheries of Alaska employed 22,577 persons, of whom 8,914 were fishermen, 11,995 were engaged in the wholesale and manufacturing industries, and 1,668 in transporting fishery products. The catch in round weight amounted to 598,124,566 pounds, valued at $10,043,366, consisting of 467,664,391 pounds of salmon, valued at $7,757,966; 128,290,715 pounds of other fish, valued at $2,164,986; and 2,169,460 pounds of shellfish, valued at $120,414.

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[13] With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure," which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

Fisheries of Alaska, 1931

SUMMARY: By districts

Item	Southeast Alaska	Central Alaska	Western Alaska	Total
PERSONS ENGAGED				
In fishing --- number	4,183	1,973	2,758	8,914
In transporting --- do	591	584	493	1,668
In wholesale and manufacturing industries --- number	4,599	3,396	4,000	11,995
Total	9,373	5,953	7,251	22,577
CRAFT EMPLOYED				
Vessels fishing --- number	525	48	9	582
Boats fishing --- do	2,138	1,433	1,389	4,960
Vessels transporting --- do	172	140	87	399
Scows, houseboats, pile drivers, etc --- do	334	312	190	836
Total	3,169	1,933	1,675	6,777
CATCH				
Fish:				
Salmon --- pounds	204,452,280	137,905,111	125,307,000	467,664,391
value	$2,879,412	$2,219,945	$2,658,609	$7,757,966
Other --- pounds	104,835,823	17,390,925	6,063,967	128,290,715
value	$1,924,822	$187,840	$52,324	$2,164,986
Shellfish --- pounds	1,010,333	1,159,127	----	2,169,460
value	$49,629	$70,785	----	$120,414
Total --- pounds	310,298,436	156,455,163	131,370,967	598,124,566
value	$4,853,863	$2,478,570	$2,710,933	$10,043,366
WHOLESALE AND MANUFACTURING				
Establishments --- number	87	88	51	226
PRODUCTS AS PREPARED FOR MARKET				
Salmon --- pounds	133,369,092	81,883,462	58,834,928	274,087,482
value	$11,291,812	$8,705,670	$10,425,919	$30,423,401
Herring --- pounds	36,673,926	7,624,417	3,853,225	48,151,568
value	$747,673	$254,863	$225,360	$1,227,896
Halibut --- pounds	19,018,986	1,277,247	129,400	20,425,633
value	$1,277,860	$66,154	$8,673	$1,352,687
Cod --- pounds	----	324,898	90,000	414,898
value	----	$19,150	$4,500	$23,650
Trout --- pounds	60,194	27,336	----	87,530
value	$4,361	$2,841	----	$7,202
Sablefish --- pounds	279,345	----	----	279,345
value	$13,286	----	----	$13,286
Smelt --- pounds	----	1,340	----	1,340
value	----	$80	----	$80
Flounder --- pounds	275,172	----	----	275,172
value	$6,887	----	----	$6,887
Rockfish --- pounds	22,919	----	----	22,919
value	$677	----	----	$677
"Lingcod" --- pounds	526	----	----	526
value	$16	----	----	$16
Clam --- pounds	30,789	523,527	----	554,316
value	$8,939	$303,518	----	$312,457
Shrimp --- pounds	458,650	1,400	----	460,050
value	$184,197	$250	----	$184,447
Crab --- pounds	60,311	60,612	----	120,923
value	$22,004	$20,062	----	$42,066
Total --- pounds	190,249,910	91,724,239	62,907,553	344,881,702
value	$13,557,712	$9,372,588	$10,664,452	$33,594,752

OPERATING UNITS: By districts

Fishermen --- number	4,183	1,973	2,758	8,914
Vessels, fishing, motor --- do	525	48	9	582
Net tonnage --- do	7,361	788	267	8,416
Boats, fishing:				
Motor --- do	946	319	53	1,318
Other --- do	1,192	1,114	1,336	3,642

Fisheries of Alaska, 1931—Continued

OPERATING UNITS: BY DISTRICTS—Continued

Item	Southeast Alaska	Central Alaska	Western Alaska	Total
Apparatus:				
Traps.....number..	274	202	2	478
Purse seines.....do....	325	138	5	468
Yards.....do....	114, 710	29, 996	2, 146	146, 852
Haul seines.....do....	3	137	3	143
Yards.....do....	600	31, 268	410	32, 278
Gill nets.....do....	315	1, 828	2, 453	4, 596
Yards.....do....	36, 520	165, 196	326, 534	528, 250
Beam trawls.....do....	9	1	-----	10
Wheels.....do....	-----	-----	259	259
Lines:				
Hand lines (cod fishery).....do....	-----	61	5	66
Trawl lines (cod fishery).....do....	-----	36	-----	36
Troll lines (salmon fishery).....do....	3, 628	-----	-----	3, 628
Skates of lines (halibut fishery).....do....	3, 838	-----	-----	3, 838
Crab pots.....do....	320	130	-----	450
Herring pounds.....do....	2	12	1	15
Herring-pound seines.....do....	14	5	2	21

CATCH: BY DISTRICTS

[Estimated round weight and value to fishermen]

FISH				
Salmon:				
Blueback, red, or sockeye.....pounds..	12, 761, 595	40, 116, 195	109, 173, 687	162, 051, 477
value....	$375, 991	$1, 055, 584	$2, 563, 855	$3, 995, 430
Chinook or king.....pounds..	9, 203, 900	2, 153, 320	2, 248, 200	13, 605, 420
value....	$250, 715	$71, 060	$23, 609	$345, 384
Chum or keta.....pounds..	25, 656, 714	19, 798, 830	13, 875, 336	59, 330, 880
value....	$230, 924	$155, 087	$70, 988	$456, 999
Humpback or pink.....pounds..	146, 461, 180	68, 869, 990	25	215, 331, 195
value....	$1, 809, 304	$809, 899	-----	$2, 619, 203
Silver or coho.....pounds..	10, 368, 891	6, 966, 776	9, 752	17, 345, 419
value....	$212, 478	$128, 315	$157	$340, 950
Herring.....pounds..	82, 897, 978	15, 048, 720	5, 620, 190	103, 566, 888
value....	$621, 735	$112, 865	$42, 151	$776, 751
Halibut.....pounds..	21, 132, 207	1, 419, 163	143, 777	22, 695, 147
value....	$1, 277, 860	$66, 154	$8, 673	$1, 352, 687
Cod.....pounds..	-----	886, 862	300, 000	1, 186, 862
value....	-----	$5, 900	$1, 500	$7, 400
Trout:				
Dolly Varden.....pounds..	36, 819	34, 170	-----	70, 989
value....	$2, 639	$2, 841	-----	$5, 480
Steelhead.....pounds..	39, 536	-----	-----	39, 536
value....	$1, 722	-----	-----	$1, 722
Sablefish.....pounds..	410, 801	-----	-----	410, 801
value....	$13, 286	-----	-----	$13, 286
Smelt.....pounds..	-----	2, 010	-----	2, 010
value....	-----	$80	-----	$80
Flounders.....pounds..	282, 413	-----	-----	282, 413
value....	$6, 887	-----	-----	$6, 887
Rockfishes.....pounds..	35, 260	-----	-----	35, 260
value....	$677	-----	-----	$677
"Lingcod".....pounds..	809	-----	-----	809
value....	$16	-----	-----	$16
Total.....pounds..	309, 288, 103	155, 296, 036	131, 370, 967	595, 955, 106
value....	$4. 804, 234	$2, 407, 785	$2, 710, 933	$9, 922, 952
SHELLFISH				
Crabs.....pounds..	116, 582	110, 586	-----	227, 168
value....	$11, 002	$10, 031	-----	$21, 033
Shrimp.....pounds..	832, 563	1, 727	-----	834, 290
value....	$36, 839	$50	-----	$36, 889
Clams:				
Butter.....pounds..	61, 188	-----	-----	61, 188
value....	$1, 788	-----	-----	$1, 788
Razor.....pounds..	-----	1, 046, 814	-----	1, 046, 814
value....	-----	$60, 704	-----	$60, 704
Total.....pounds..	1, 010, 333	1, 159, 127	-----	2, 169, 460
value....	$49. 629	$70. 785	-----	$120, 414
Grand total.....pounds..	310, 298, 436	156, 455, 163	131, 370, 967	598, 124, 566
value....	$4, 853, 863	$2, 478, 570	$2, 710, 933	$10, 043, 366

Industries related to the fisheries of Alaska, 1931

TRANSPORTING

Item		Southeast Alaska	Central Alaska	Western Alaska	Total
Persons engaged	number	591	584	493	1,668
Vessels transporting:					
Steam	do			17	17
Net tonnage	do			30,560	30,560
Motor	do	172	140	70	382
Net tonnage	do	5,141	3,955	3,520	12,616
Scows, houseboats, pile drivers, etc	do	334	312	190	83 6

WHOLESALE AND MANUFACTURING

Item		Southeast Alaska	Central Alaska	Western Alaska	Total
Persons engaged	number	4,599	3,396	4,000	11,995
Establishments:					
Handling fresh and frozen fish	do	39	7	1	47
Curing fish	do	31	29	26	86
Canning fish	do	42	55	25	122
Manufacturing by-products	do	7	8		15
Total, exclusive of duplication	do	87	88	51	226

PRODUCTS AS PREPARED FOR MARKET

Item		Southeast Alaska	Central Alaska	Western Alaska	Total
FRESH					
Salmon (all species)	pounds	768,619			768,619
	value	$55,918			$55,918
Salmon eggs (for caviar)	pounds			4,100	4,100
	value			$500	$500
Herring (for bait)	pounds	1,910,100	946,762	29,250	2,886,112
	value	$26,763	$12,469	$351	$39,583
Halibut	pounds	13,681,622	117,070	12,588	13,811,280
	value	$942,135	$8,948	$496	$951,579
Trout	pounds	34,552	21,400		55,952
	value	$3,011	$2,422		$5,433
Sablefish	pounds	1,110			1,110
	value	$30			$30
Smelt	pounds		1,340		1,340
	value		$80		$80
Flounders	pounds	210,000			210,000
	value	$5,250			$5,250
Rockfishes	pounds	4,451			4,451
	value	$134			$134
Crabs:					
Meat	pounds	56,271	43,686		99,957
	value	$21,600	$17,478		$39,078
Whole in shell	pounds	4,040	10,590		14,630
	value	$404	$480		$884
Clams, whole in shell	pounds		240		240
	value		$50		$50
Shrimp:					
Meat	pounds	457,005	400		457,405
	value	$183,950	$100		$184,050
Whole in shell	pounds	1,645	1,000		2,645
	value	$247	$150		$397
Total	pounds	17,129,415	1,142,488	45,938	18,317,841
	value	$1,239,442	$42,177	$1,347	$1,282,966
FROZEN					
Salmon (all species)	pounds	5,969,299	22,800		5,992,099
	value	$392,018	$644		$392,662
Salmon fillets	pounds	190,818			190,818
	value	$19,153			$19,153
Herring (for bait)	pounds	4,675,060	46,625		4,721,685
	value	$36,566	$746		$37,312
Herring (for food)	pounds			236,500	236,500
	value			$9,460	$9,460
Halibut	pounds	5,284,947	1,157,737	116,812	6,559,496
	value	$331,007	$57,019	$8,177	$396,203
Halibut fillets	pounds	52,417			52,417
	value	$4,718			$4,718
Halibut cheeks	pounds		2,032		2,032
	value		$102		$102

Industries related to the fisheries of Alaska, 1931—Continued

PRODUCTS AS PREPARED FOR MARKET—Continued

Item		Southeast Alaska	Central Alaska	Western Alaska	Total
FROZEN—continued					
Trout	pounds	21, 786	5, 936	-----	27, 722
	value	$738	$419	-----	$1, 157
Sablefish	pounds	278, 235	-----	-----	278, 235
	value	$13, 256	-----	-----	$13. 256
Flounders	pounds	65, 172	-----	-----	65, 172
	value	$1, 637	-----	-----	$1, 637
Rockfishes	pounds	18, 468	-----	-----	18, 468
	value	$543	-----	-----	$543
"Lingcod"	pounds	526	-----	-----	526
	value	$16	-----	-----	$16
Total	pounds	16, 556, 728	1, 235, 130	353, 312	18, 145, 170
	value	$799, 652	$58, 930	$17, 637	$876, 219
CURED					
Salmon:					
Mild-cured	pounds	3, 243, 200	16, 800	60, 800	3. 320, 800
	value	$626, 291	$1, 425	$6, 037	$633, 753
Pickled	pounds	77, 800	354, 450	708, 950	1, 141, 200
	value	$6, 121	$31, 161	$66, 226	$103, 508
Dried, smoked, and dry-salted	pounds	7, 600	9, 450	1, 265, 126	1, 282, 176
	value	$380	$945	$76, 935	$78, 260
Herring:					
Pickled (for food)—					
Scotch cure	pounds	1, 759, 475	2, 960, 350	3. 291, 225	8, 011, 050
	value	$107, 097	$167, 217	$199, 493	$473, 807
Norwegian cure	pounds	200	29, 500	130, 800	160, 500
	value	$15	$2, 006	$8, 790	$10, 811
Roused	pounds	-----	-----	92, 400	92, 400
	value	-----	-----	$4, 266	$4, 266
Spiced	pounds	2, 000	-----	-----	2, 000
	value	$250	-----	-----	$250
Dry-salted	pounds	-----	-----	73, 050	73. 050
	value	-----	-----	$3, 000	$3, 000
Cod:					
Dry-salted	pounds	-----	58, 800	90, 000	148, 800
	value	-----	$2, 702	$4, 500	$7, 202
Stockfish	pounds	-----	119, 300	-----	119, 300
	value	-----	$11, 930	-----	$11, 930
Pickled	pounds	-----	146, 398	-----	146, 398
	value	-----	$4, 471	-----	$4, 471
Tongues	pounds	-----	400	-----	400
	value	-----	$47	-----	$47
Trout, pickled	pounds	400	-----	-----	400
	value	$36	-----	-----	$36
Total	pounds	5, 090, 675	3, 695. 448	5, 712, 351	14, 498, 474
	value	$740, 190	$221, 904	$369, 247	$1, 331, 341
CANNED					
Salmon:					
Blueback, red or sockeye	pounds	7, 098, 960	21, 079, 344	53, 147, 040	81, 325, 344
	value	$1, 471, 578	$4, 116, 919	$9, 997, 591	$15, 586, 088
Chinook or king	pounds	715, 008	1, 324, 752	449, 856	2, 489, 616
	value	$134, 825	$276, 690	$75, 872	$487, 387
Chum or keta	pounds	13, 163, 904	9, 266, 544	3, 194, 640	25, 625, 088
	value	$891, 375	$607, 108	$202, 202	$1, 700, 685
Humpback or pink	pounds	96, 645, 216	45, 140, 064	-----	141, 785, 280
	value	$7, 052, 803	$3, 162, 695	-----	$10, 215, 498
Silver or coho	pounds	4, 245, 840	3, 903, 888	4, 416	8, 154, 144
	value	$616, 541	$489, 537	$556	$1, 106, 634
Trout	pounds	3, 456	-----	-----	3, 456
	value	$576	-----	-----	$576
Miscellaneous fish	pounds	5, 328	5, 640	-----	10, 968
	value	$999	$1, 035	-----	$2, 034
Clams	pounds	30, 789	523, 287	-----	554, 076
	value	$8, 939	$303, 468	-----	$312, 407
Crabs	pounds	-----	6, 336	-----	6, 336
	value	-----	$2, 104	-----	$2, 104
Total	pounds	121, 908, 501	81, 249, 855	56, 795, 952	259, 954, 308
	value	$10, 177, 636	$8, 959, 556	$10, 276, 221	$29, 413, 413

Industries related to the fisheries of Alaska, 1931—Continued

PRODUCTS AS PREPARED FOR MARKET—Continued

Item		Southeast Alaska	Central Alaska	Western Alaska	Total
BY-PRODUCTS					
Fertilizer, salmon	pounds	1, 020, 000	565, 288		1, 585, 288
	value	$20, 040	$9, 054		$29, 094
Meal, herring	pounds	14, 000, 276	1, 822, 700		15, 822, 976
	value	$242, 736	$30, 089		$272, 825
Oil:					
Salmon	pounds	217, 500	194, 850		412, 350
	value	$3, 770	$8, 542		$12, 312
Herring	pounds	14, 326, 815	1, 818, 480		16, 145, 295
	value	$334, 246	$42, 336		$376, 582
Total	pounds	29, 564, 591	4, 401, 318		33, 965, 909
	value	$600, 792	$90, 021		$690, 813
Grand total	pounds	190, 249, 910	91, 724, 239	62, 907, 553	344, 881, 702
	value	$13, 557, 712	$9, 372, 588	$10, 664, 452	$33, 594, 752

SUPPLEMENTARY TABLE SHOWING THE PACK OF CANNED PRODUCTS IN "STANDARD CASES"[1]

Item		Southeast Alaska	Central Alaska	Western Alaska	Total
Salmon:					
Blueback, red or sockeye	cases	147, 895	439, 153	1, 107, 230	1, 694, 278
	value	$1, 471, 578	$4, 116, 919	$9, 997, 591	$15, 586, 088
Chinook or king	cases	14, 896	27, 599	9, 372	51, 867
	value	$134, 825	$276, 690	$75. 872	$487, 387
Chum or keta	cases	274, 248	193, 053	66, 555	533, 856
	value	$891, 375	$607, 108	$202, 202	$1, 700, 685
Humpback or pink	cases	2, 013, 442	940, 418		2, 953, 860
	value	$7, 052, 803	$3, 162, 695		$10, 215, 498
Silver or coho	cases	88, 455	81, 331	92	169, 878
	value	$616, 541	$489, 537	$556	$1, 106, 634
Trout	cases	72			72
	value	$576			$576
Miscellaneous fish	cases	111	118		229
	value	$999	$1, 035		$2, 034
Clams	cases	2, 039	34, 886		36, 925
	value	$8, 939	$303, 468		$312, 407
Crabs	cases		132		132
	value		$2, 104		$2, 104
Total	cases	2, 541, 158	1, 716, 690	1, 183, 249	5, 441, 097
	value	$10, 177, 636	$8, 959, 556	$10, 276, 221	$29, 413, 413

SUPPLEMENTARY TABLE SHOWING THE OUTPUT OF BY-PRODUCTS IN TONS AND GALLONS

Item		Southeast Alaska	Central Alaska	Total
Fertilizer, salmon	tons	510	283	793
	value	$20, 040	$9, 054	$29, 094
Meal, herring	tons	7, 000	911	7, 911
	value	$242, 736	$30, 089	$272, 825
Oil:				
Salmon	gallons	29, 000	25, 980	54, 980
	value	$3, 770	$8, 542	$12, 312
Herring	gallons	1, 910, 242	242, 464	2, 152, 706
	value	$334, 246	$42, 336	$376, 582
Total	value	$600, 792	$90, 021	$690, 813

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[1] The pack of salmon, trout, miscellaneous fish, and crabs has been converted to "standard cases" of 48 one-pound cans, and clams to "standard cases" of 48 No. 1 five-ounce cans.

NOTE.—Halibut products include all taken by the Alaska fleet, some of which were landed at other than Alaskan ports. The total landings in Alaska in 1931 amounted to 9,626,118 pounds, valued at $608,480, as compared with 11,408,984 pounds, valued at $863,089, in 1930.

FISHERIES OF PUERTO RICO

A general survey of the fisheries of Puerto Rico was made in 1899, immediately after the American occupation of that island, but no detailed data on catch, fishermen, and gear employed were secured. The survey made in 1931 was the first statistical and marketing survey made of the fisheries of Puerto Rico.

During 1930, the fisheries of Puerto Rico employed 1,403 fishermen. Their catch amounted to 3,080,100 pounds of fishery products valued at $207,085 to the fishermen. In making the catch the fishermen used 9 motor boats, 240 sailboats, and 462 rowboats. The gear employed consisted of 91 haul seines, 285 gill nets, 14 trammel nets, 366 cast nets, 31 dip nets, 9 hoop nets, 15 weirs (corrals), 912 hand lines, 133 trawl lines, 334 troll lines, and 4,239 fish pots.

As the fishermen keep no records of their operations, it was impossible to separate the catch by species. In general it may be stated that about 50 per cent of the catch is taken by fish pots, 30 per cent by nets, and 20 per cent by lines or other apparatus.

Fisheries of Puerto Rico, 1930

Persons engaged, fishermen	1,403
Boats:	
Motor	9
Sail	240
Row	462
Apparatus:	
Haul seines	91
Length, yards	19,820
Gill nets	285
Square yards	55,835
Trammel nets	14
Square yards	6,940
Cast nets	366
Dip nets	31
Hoop nets	9
Fish pots	4,239
Weirs or corrals	15
Lines—	
Hand	912
Hooks	2,501
Trawl	133
Hooks	18,087
Troll	334
Hooks	334
Forks (used in taking langosta or spiny lobster)	46
Catch—	
Pounds	3,080,100
Value	$207,085

COMMON AND SCIENTIFIC NAMES OF FISHERY PRODUCTS

In order to prevent misunderstanding from the use of common names employed in the tables and discussions, the following list of common and scientific names is given:

Common and scientific names of the commercial fishery products caught in the United States and Alaska

Common name as shown in bureau reports	Other common names	Scientific names
Albacore	Longfin tuna	*Germo alalunga.*
Alewives	Branch herring, wall-eyed or big-eyed herring. Blueback, glut herring	*Pomolobus pseudoharengus.* *Pomolobus æstivalis.*
Amberjack		Seriola species.
Anchovies		*Engraulis mordax.* *Anchoviella delicatissima.* *Anchoviella compressa.*
Angelfish		*Pomacanthus arcuatus.* *Angelichthys isabelita.*
Barracuda		*Sphyræna argentea* (Pacific coast). *Sphyræna barracuda* (Atlantic coast).
Black bass	Smallmouth bass Largemouth bass	*Micropterus dolomieu.* *Micropterus salmoides.*
Bluefish	Tailor	*Pomatomus saltatrix.*
Blue pike	Pike perch, blue pickerel (Canada)	*Stizostedion glaucum.*
Blue runner or hardtail	Runner	*Caranx crysos.*
Bonito		*Sarda sarda.* *Sarda chiliensis.*
Bowfin		*Amia calva.*
Buffalofish		Ictiobus species.
Bullhead		Ameiurus species.
Butterfish	Dollarfish	*Poronotus triacanthus.*
Burbot	Lawyer, ling	*Lota maculosa.*
Cabio	Coalfish, crab eater, cobia	*Rachycentron canadum.*
Cabrilla	Rock bass	*Parala brax clathratus.*
Carp (German)		*Cyprinus carpio.*
Catfish		Siluridæ species.
Cero		*Scomberomonus regalis.*
Chubs	Tullibee in Canada, longjaws, bluefin, blackfin in United States.	All Leucichthys except *artedi* (in Great Lakes).
Cigarfish	Scad	Decapterus species.
Cisco	Herring in Canada	*Leucichthys artedi* (Lake Erie only).
Cod	Codfish	*Gadus macrocephalus* (Pacific coast.) *Gadus callarias* (Atlantic coast).
Cowfish	Trunkfish, chapin	Ostracion species.
Crappie	White crappie Black crappie, strawberry bass, calico bass.	*Pomoxis annularis.* *Pomoxis sparoides.*
Crevalle		*Caranx hippos.*
Croaker	Crocus, hardhead	*Micropogon undulatus.*
Cunner	Chogset, blue perch, bergall	*Tautogolabrus adspersus.*
Cusk		*Brosmius brosme.*
Dolly Varden trout	Salmon trout, bull trout	*Salvelinus parkei.*
Dolphin		*Coryphaena hippurus.*
Drum, fresh-water, or sheepshead.	White perch, gaspergou	*Aplodinotus grunniens.*
Drum, black		*Pogonias cromis.*
Drum, red	Channel bass, redfish, spotted bass	*Sciænops ocellatus.*
Eels		*Anguilla rostrata.* *Leptocephalus conger.* *Gymnothorax mordax.* *Gymnothorax moringua.*
Eulachon	Candlefish	*Thaleichthys pacificus.*
Flounders	Dabs, blackbacks, lemon sole, winter flounder, summer flounder.	Pleuronectidae species.
Flyingfish		*Cysilurus californicus.*
Frigate mackerel		*Auxis thazard.*
Garfish		Tylosurus species. Ablennes species.
Gizzard shad	Nanny shad, mud shad	*Dorosoma cepedianum.*
Goldeye		Hiodon species.
Goldfish	Sand perch	*Carassius auratus.*
Goosefish		*Lophius piscatorius.*
Grayfish	Dogfish Spiny dog Smooth dog	*Squalus sucklii* (Pacific coast). *Squalus acanthias.* *Galeohinus lævis.*
Greenfish	Rudderfish	*Girella nigricans.*
Groupers		Epinephelus species. Mycteroperca species.
Grunts	Margatefish, sailors choice (Key West).	Hæmulon species.
Haddock		*Melanogrammus aegilfinus.*
Hagfish	Slimefish	*Myxine glutinosa.*
Hake	Squirrel hake, Boston hake, ling, black hake, mud hake. Merluccio	Urophycis species (Atlantic coast). *Merlucius productus* (Pacific coast).
Halfmoon		*Medialuna californiensis.*
Halibut		*Hippoglossus hippoglossus.*
Halibut, "California"		*Paralichthys californicus.*

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common name as shown in bureau reports	Other common names	Scientific names
Hardhead		*Orthodon microlepidotus.*
Harvestfish	Starfish, pappyfish	*Peprilus alepidotus.*
Herring		*Clupea harengus* (Atlantic coast). *Clupea pallasii* (Pacific coast).
Hickory shad	Tailor shad	*Pomolobus mediocris.*
Hog-choker		*Achirus fasciatus.*
Hogfish	Capitaine, perro perro	*Lachnolaimus maximus* (Florida).
Horse mackerel		*Trachurus symmetricus.*
Jewfish		*Promicrops itaiara.*
Kingfish		*Scomberomorus cavalla.*
Kingfish (California)	Little roncador, croaker	*Genyonemus lineatus.*
King whiting	Northern whiting, kingfish, seamink	Menticirrhus species.
Ladyfish	Bonefish, bananafish	*Albula vulpes.*
Lake herring	Herring	*Leucichthys artedi* (Great Lakes, except Erie).
Lake trout		*Cristivomer namaycush.*
Launce	Sand eel, lant, sand launce	*Ammodytes americanus.*
"Lingcod"	Cultus cod, blue cod, buffalo cod, ling	*Ophiodon elongatus.*
Mackerel		*Scomber scombrus* (Atlantic coast). *Scomber diego* (Pacific coast).
Menhaden	Mossbunker, pogy	*Brevoortia tyrannus.*
Minnows		Cyprinidae species.
Mojarro		Eucinostomus species.
Mooneye	Toothed herring	Hiodon species.
Moonfish		*Vomer setipinnis.* *Selene vomer.*
Mullet	Jumping mullet	Mugil species.
Mummichog	Mayfish, killifish	Fundulus species.
Muttonfish		*Lutianus analis.*
Paddlefish	Spoonbill cat	*Polyodon spathula.*
Parrotfish		Scaridæ species.
Perch, white	White perch Blue perch, surf-fishes	*Morone americana.* Embiotocidæ species (Pacific coast).
Perch, yellow	Winged perch	*Perca flavescens.*
Permit	Great pompano	*Trachinotus goodei.*
Pickerel		*Esox reticulatus.* *Esox americanus.*
Pigfish		*Orthopristis chrysopterus.*
Pike (jacks)	Great Lakes pike, pickerel	*Esox lucius.*
Pilchard	Sardine	*Sardinia cærulea.*
Pilotfish		*Naucrates ductor.* *Seriole zonata.*
Pinfish	Bream, salt-water bream	*Lagodon rhomboides.*
Pollock		*Pollachius virens.*
Pompano		Trachinotus species (Atlantic coast). *Palometa simillimus* (Pacific coast).
Porgies	Porgee	Calamus species.
Porkfish	Sisi	*Anisotremus virginicus.*
Quillback	Spearfish or skimfish	Carpiodes species.
Roach	Shiner	*Notemigonus crysoleucas.*
Rock bass	Redeye, goggleeye	*Ambloplites rupestris* (Mississippi River and tributaries).
Rockfishes	Rock cod	Sebestodes species (Pacific coast).
Rosefish		*Sebastes marinus.*
Sablefish	Black cod	*Anaplopoma fimbria.*
Salmon:		
Atlantic		*Salmo salar* (Atlantic coast).
Pacific—		
Blueback, red or sockeye.		*Oncorhynchus nerka.*
Chinook or king	Tyee, Columbia, Sacramento, spring	*Oncorhynchus tschawytscha.*
Chum or keta	Dog salmon	*Oncorhynchus keta.*
Humpback or pink.		*Oncorhynchus gorbuscha.*
Silver or coho		*Oncorhynchus kisutch.*
Steelhead		(See steelhead trout.)
Sauger pike	Sand pike	*Stizostedion canadense.*
Sawfish		*Pristis pectinatus.*
Scamp		*Mycteroperca phenax.*
Sculpin		Cottidæ species.
Scup	Paugy or porgy, fair maid	*Stenotomus chrysops.*
Sea bass	Black jewfish or black sea bass Black sea bass	*Stereolepis gigas* (Pacific coast.) *Centropristes striatus* (Atlantic coast).
Sea bass, white (California)		*Cynoscion nobilis* (Pacific coast).
Sea gar	Needlefish, billfish, houndfish	Tylosurus species.
Sea robin		Prionotus species.
Shad	American shad	*Alosa sapidissima.*
Sharks		Carcharodon species; Mustelus species; Carcharhinus species; Sphyrna species.

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common name as shown in bureau reports	Other common names	Scientific names
Sheepshead (salt-water)		*Archosargus probatocephalus.*
Sheepshead (fresh-water)	Drum, fresh-water	*Aplodinotus grunniens.*
Sheepshead (Pacific coast)	Redfish, flat head	*Pimelometopon pulcher.*
Silversides	Spearing	Menidia species.
Silver perch	Sand perch	*Bairdiella chrysura.*
Skates		Raja species.
Skipjack	Striped tuna	*Euthynnus pelamys.*
Skipper	"Billfish"	*Scomberesox saurus.*
Smelt		*Osmerus mordas* (Atlantic coast). Argentinidæ species (Pacific coast).
Snapper, Mangrove	Gray snapper	*Lutianus griseus.*
Snapper, red		*Lutianus blackfordii.*
Snook	Robalo, sergeantfish	*Centropomus undecimalis.*
Sole		*Psettichthys melanostictus* (Pacific coast).
Spadefish		*Chaetodipterus faber.*
Spanish mackeral		*Scomberomorus maculatus.*
Spearfish		*Tetrapturus imperator.*
Splittail		*Pogonichthys macrolepidotus.*
Spot	Lafayette, goody	*Leiostomus xanthurus.*
Squawfish	Sacramento pike	*Ptychocheilus oregonensis.*
Squeteague (gray)	Gray trout, weakfish, trout	*Cynoscion regalis.*
Squeteague (spotted)	Spotted weakfish, spotted trout	*Cynoscion nebulosus.*
Squirrelfish		*Diplectrum formosum.*
Steelhead trout	Salmon trout	*Salmo gairdneri.*
Stingray		Dasyatis species.
Striped bass	Rockfish, rock	*Roccus lineatus.*
Sturgeon		Acipenser species.
Sturgeon, shovelnose		*Scaphirrhynchus platorynchus.*
Sucker	Fresh-water mullet	Catostomidæ species.
Sunfish		Lepomis species. Centrarchidæ species.
Surf fishes		Embiotocidæ species.
Swellfish	Puffer, swell toad, balloonfish, globefish.	*Spheroides maculatus.*
Swordfish		*Xiphias gladius.*
Tang		Hepatus species.
Tarpon	Silver king	*Tarpon atlanticus.*
Tautog	Blackfish, oysterfish	*Tautoga onitis.*
Tenpounder	Elops	*Elops saurus.*
Thimble-eyed mackerel	Bullseye	*Scomber colias.*
Tilefish		*Lopholatilus chamæleonticeps.*
Tomcod		*Microgadus tomcod* (Atlantic coast). *Microgadus proximus* (Pacific coast).
Tripletail		*Lobotes surinamensis.*
Tuna	Bluefin tuna, tunny, horse mackerel, leaping tuna.	*Thunnus thynnus.*
Turbot	Greenland halibut, American turbot	*Reinharditus hippoglossoides.* *Balistes carolinensis.*
White bass	White lake bass	*Roccus chrysops.*
Whitebait		Small fry of any fish.
Whitefish		*Coregonus clupeiformis* (Great Lakes). *Caulolatilus princeps* (Pacific coast).
Whitefish (Menominee)		*Coregonus clupeaformis.*
Whiting	Silver hake	*Merluccius bilinearis.*
Wolffish		*Anarrhichas lupus.*
Yellow bass		*Morone interrupta.*
Yellow perch		*Perca flavescens.*
Yellow pike	Wall-eyed pike, pike perch, dore	*Stizostedion vitreum.*
Yellowfin tuna		*Neothunnus macropterus.*
Yellowtail		*Ocyurus chrysurus* (Atlantic coast). *Seriola dorsalis* (Pacific coast).
Wahoo		Acanthocybium solandri.
Abalone		Halotis species.
Clams:		
Hard	Round clam, cherrystone, quahog, little neck.	*Tivela stultorum* (Pacific coast). *Venus mercenaria* (Atlantic coast). *Venus mortoni* (Florida coast).
Cockle		*Cardium corbis.*
Soft	Sand clam, soft-shelled clam, nannynose, maninose.	*Mya arenaria.*
Surf	Skimmer	*Mactra solidissima.*
Razor (Atlantic)		Siliqua species; Tagelus species.
Razor (Pacific)		*Siliqua patula.*
Pismo		*Tivela stultorum* (Pacific coast).
Conchs		Strombus species. Busycon species.

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common name as shown in bureau reports	Other common names	Scientific names
Crabs:		
Stone		*Menippi mercenaria.*
Soft	Soft-shelled crab, blue crab	*Callinectes sapidus.*
Hard	Hardshell crab, blue crab	Do.
	Dungeness crab	*Cancer magister* (Pacific coast).
	Rock crab, hard crab	*Cancer irroratus* (Atlantic coast).
King	Horseshoe crab	Limulus.
Spider	Toad crab	*Hyas coarctatus.*
Crawfish	Crayfish	Cambarus species (Atlantic coast). Astacus species (Pacific coast).
Lobsters:		
Common		*Homarus americanus* (Atlantic coast).
Spiny	Rock lobster, crayfish	*Panulirus interruptus* (Pacific coast). *Panulirus argus* (Atlantic coast).
Mussels:		
Sea		*Mytilus californianus* (Pacific coast). *Mytilus edulis.*
Freshwater		Quadrula species. Lampsilis species. Symphynota species. Unio species.
Octopus		*Octopus punctatus* (Pacific coast).
Oysters:		
Eastern		*Ostrea elongata.*
Western	Olympia	*Ostrea lurida* (Pacific coast).
Japanese (introduced)		*Ostrea gigas.*
Periwinkles		Littorina species.
Scallops:		
Sea		*Pecten magellanicus.*
Bay		*Pecten irradians* (Atlantic coast). *Pecten æquisulcatus* (Pacific coast).
Shrimp		*Peneus setiferus.* *Peneus brasiliensis* (Atlantic and Gulf coasts). Pandalus species (Pacific coast). Pandalopsis species (Pacific coast). Crangon species (Pacific coast).
Snails		Gastropoda species.
Squid		*Loligo opalescens* (Pacific coast). *Loligo pealei* (Atlantic coast).
Turtles:		
Green		Chelonia mydas.
Loggerhead		*Thalassochelys caretta.*
Hawksbill		*Chelonia inbricata.*
Snapping	Mud turtle, mossback	*Chelydra serpentina.*
Terrapin	Diamond-back terrapin	*Malacoclemmys palustris.*
Frogs		Rana species.
Irish moss		*Chondrus crispus.*
Kelp		Macrocystis species; Nereocystis species; Pelagophycus species; Alaria species.
Sponges:		
Glove		*Spongia graminea* (Hyatt) *Euspongia officianalis* (L.).
Grass		*Hippospongia equina cerebriformis.*
Sheepswool		*Hippospongia canaliculata gossypina.*
Yellow		*Hippospongia equina elastica.*
Trepang	Sea cucumber	*Cucumaris frondosa; Thyone briareus.*

STATISTICAL SURVEY PROCEDURE

METHODS OF COLLECTION

In order that persons using the statistics in this report may judge as to their completeness and authenticity, there follows an outline of the methods employed by the bureau in collecting fishery statistics. It will be noted that several methods are used. Each method has been carefully studied to obtain the best results with the available personnel.

General fishery statistics.—In the collection of general fishery statistics, data are obtained on the catch of fishery products and its value as landed by the fishermen, the quantity or number of each kind of gear used, the number of fishing boats, the number and net tonnage of fishing and transporting vessels, the number of wholesale establishments, the amount of wages and salaries paid in these establishments, the quantity and value of products prepared, and the number of persons engaged in each phase of the industry.

The scope of the coastal surveys includes the commercial fisheries of the oceans, bays, and coastal rivers as far inland as commercial fishing is important. This usually coincides with the range of commercial fishing for anadromous species. Statistics of the fisheries of the Mississippi River include the fisheries of the Mississippi River proper, as well as all tributaries wherein commerical fishing for either fish, crustaceans, or mollusks is prosecuted. Statistics of the lake fisheries include those prosecuted in the Great Lakes, adjacent bays, and the international lakes of northern Minnesota, as well as certain rivers having outlets into these waters.

Beginning in 1929 general fishery statistics have been collected on an annual basis for all of the marine and lake sections of the United States and Alaska.

In conducting these surveys it is the custom of the bureau to dispatch agents to the districts to be surveyed early in the calendar year. (It should be noted that statistics on the catch of oysters for 1930 cover the calendar year. In previous years statistics for this mollusk were for the oyster season.) They obtain statistics on operations during the previous calendar year. The agents conducting these surveys are trained men or recruits working under the close supervision of trained men. Recruits are permitted to work individually only after proving a satisfactory aptitude for the work during their training period. While it is impossible for the few agents available to interview each fisherman in a given locality, the more important ones are visited and a sufficient number of those of lesser importance are interviewed to obtain reliable information on their production. In practice, virtually all wholesale firms are visited, as well as captains of fishing vessels (those of 5 net tons or over) and also all the more important shore fishermen and representative small producers.

As an aid in locating fishermen, lists of vessels and motor-boat owners are obtained from local customhouses. It is also often possible to obtain the names of licensed commercial fishermen and occasionally some statistics of the catch from the various State fishery agencies. In the Great Lakes and Pacific Coast States such exceptional cooperation has been obtained from the State agencies in recent years that only fragmentary surveys are made by the bureau to supplement missing data. Virginia and Maryland have recently adopted very complete statistical plans.

For the Great Lakes and international lakes of northern Minnesota the bureau obtains catch statistics and usually the value of the catch direct from the State records. To obtain data on the fishermen, boats, vessels, and gear the bureau conducts such personal surveys among the fishermen as may be necessary to supplement the State records. Annual catch statistics are available since 1913.

Agents are stationed at Seattle, Wash., who survey each of the Pacific Coast States annually to supplement data that are missing from the State records. In most cases the value of the catch is derived from dealers' records and from estimates of prices. In

Washington and Oregon the offshore fisheries are surveyed separately for units of operation, catch, and value of the catch. In almost all other respects the statistics are as collected by the States. Statistics of the wholesale industry for this section are obtained largely by personal interview.

The fisheries of Alaska are conducted primarily by large operators. Sworn statements are required from these operators concerning their operations. These are collected and compiled by the Alaska division of this bureau.

Statistics on the catch of fish collected in the above general canvasses are shown in this report on the basis of round weight, that is, the weight of the fish as caught, except in the Pacific Coast States where "as landed" weights are shown.

In general in the Pacific Coast States halibut is landed heads on but eviscerated; tuna and tunalike fishes are landed headless and eviscerated; swordfish may be landed headless and eviscerated; some salmon, especially that caught by troll lines, may be eviscerated; "lingcod," rockfishes, and sablefish may be landed eviscerated. The weight of cod caught off Alaska and shown in the Pacific coast tables has been converted to the basis of round weight.

Bulletins containing statistics for each section are released following the survey.

Landings at certain important United States ports.—Statistics of the landings at the principal New England ports, Boston and Gloucester, Mass., and Portland, Me., are similarly obtained. An agent is permanently stationed at each of these ports. His duties include the obtaining of statistics on the quantity of fish landed each day by each fishing vessel, the value of such fish landed, information concerning the date of departure and arrival of the vessel, and also a list of the grounds from which the fish were taken and the gear used in their capture. These statistics are forwarded to the bureau, where compilations are made. Monthly statistical bulletins are issued for these landings as well as annual bulletins summarizing the year's activities.

Statistics of the landings of fish at Seattle, Wash., are collected by the bureau's agent in that city. Landings are classified as those made by American fishing vessels and those received by Seattle wholesale dealers. The landings credited to United States fishing vessels are made by vessels operating distinctly as primary fishing units, usually in the offshore fisheries, while those credited as received by wholesale dealers are usually products of the shore fisheries collected mainly from points in Puget Sound and do not include fish received from Alaska or Canada, or landings made by the halibut fleet. Monthly statistical bulletins are issued for these landings as well as annual bulletins summarizing the year's activities.

Statistics on the landings of fish at New York City are obtained by J. H. Matthews, executive secretary of the Middle Atlantic Fisheries Association, while those for Groton, Conn., are obtained by the bureau's agents. Statements of these landings are forwarded to the bureau, where they are compiled. These statistics have not included the value of the catch. Monthly bulletins including these data are not issued; however, a summary is published in this document.

Statistics of the fishery products handled at the municipal wharf, Washington, D. C., are reported to the bureau by agents of the city health department. They are not published in bulletin form, but a summary of the year's activities is published in the annual report of this division.

Atlantic mackerel fishery.—Statistics on the catch by the Atlantic mackerel fleet are obtained by combining the figures of mackerel landed at Boston and Gloucester, Mass., and Portland, Me., with those obtained by agents who in recent years have been stationed at other Atlantic ports where mackerel are landed. These agents obtain data on the fares of mackerel landed, similar to the data obtained on the landings by fishing vessels at the three New England ports. The figures include only the catches made by purse seine and drift gill net craft and are not complete for these gears for craft under 5 net tons, capacity. Statistics of this fishery appear only in the annual reports of this division, although the landings at the principal New England ports appear in the monthly and annual bulletins published for those ports.

Shad and alewife fisheries.—Due to the importance of the Hudson and Potomac Rivers in the production of shad, surveys for the statistics of the catch, value of the catch, and operating units are made annually. On the Potomac River similar statistics also are obtained for the alewife fishery. The surveys are conducted by agents in a manner similar to that employed in the collection of general fishery statistics, except that probably more fishermen are interviewed, as great care is exercised to make these canvasses as accurate as possible.

The State of New York obtains statistics for the fisheries of the Hudson River that closely parallel those desired by the bureau for this fishery, which alleviates the work on this river.

Statistics of the shad and alewife fisheries are not published separately in bulletin form, but a summary of the year's activities is published in the annual report of this division.

Sponge market, Tarpon Springs.—A large proportion of the total output of sponges in Florida is handled through the sponge exchange at Tarpon Springs. In view of this, the bureau has arranged with a representative of the exchange to furnish statistics of the quantity and value of the sponges, by variety classification, handled through it annually. Statistics of the quantity of sponges handled through the exchange are not published in bulletin form, but a summary of the year's activities is published in the annual reports of this division.

Pacific halibut fishery.—Statistics of the Pacific halibut fishery are obtained by the bureau's agent in Seattle, aided by bureau representatives in Alaska, American consuls in British Columbia, the International Fisheries Commission, and the Prince Rupert Halibut Exchange. The fleet classification has been arbitrarily applied by including in the "Washington fleet" all United States and Alaska vessels that land more than half of their catch in that State. All other United States and Alaska vessels of the halibut fleet are included in the "Alaska fleet." Monthly and annual statistical bulletins are available on this fishery, being published along with the statistics of the landings of fishery products at Seattle, Wash.

Canned fishery products and by-products.—Beginning in 1921, the bureau has made annual surveys for statistics of the canned fishery products and by-products industries. These are begun the first week in January of each year for statistics of the production in the preceding year. The surveys usually occupy six to nine weeks' time. During this period agents visit each plant in the United States where there is a production of canned fishery products or by-products. They obtain statistics of the production and value of the production for each commodity. In rare instances, where plants are not easily reached by regular transportation facilities, returns are obtained by mail.

The value shown for canned products constitutes the gross amount received by the packer at the production point, no deductions being made for commissions or expenses.

Statistics of the canned fishery products and by-products produced in Alaska are received on the same sworn statements that include statistics of the general fisheries. An annual statistical bulletin is issued on this trade.

Manufactured fishery products.—Statistics were obtained for 1930 for the first time on the total production of the many fishery products manufactured in the marine and lakes sections of the United States. These data appear only in the annual report of this division.

Packaged-fish trade.—Complete statistics of the annual production and value of fish packaged in the United States are obtained as a part of the survey for statistics of the canned fishery products and by-products industries. These statistics are published in bulletin form annually.

Cold-storage holdings of fish.—An arrangement has been made with the Bureau of Agricultural Economics, Department of Agriculture, whereby statistics of the cold-storage holdings of the various species of fish, by sections of the United States, are furnished to this bureau monthly. Included with statistics of the holdings is a statement of the quantity of the various species of fish frozen and also the holdings of certain cured fish. Bulletins showing these statistics are issued monthly as well as annually.

Foreign fishery trade.—Statistics on the foreign fishery trade are obtained from compilations made by the Bureau of Foreign and Domestic Commerce. Statistics of all known fishery products imported or exported are assembled in one table and published annually in the report of this division.

COMPILATION PRACTICES

Certain practices of importance used in the compilation of fishery statistics are explained below.

Days absent.—In computing "days absent" for vessels landing fares at the various ports, the day of departure and the day of arrival are included; thus, a vessel leaving port on the 8th of the month and returning on the 15th of the month will be shown as being absent eight days.

Operating units.—Operating units as referred to in this document include persons engaged and fishing craft and gear employed.

Vessels.—The term "vessels" refers to craft having a capacity of 5 net tons or greater.

Incidental catch.—The term "incidental catch" refers to the catch of certain species by a type of gear which ordinarily does not take appreciable amounts, if any, of such species.

Percentages.—Percentages are usually shown as whole numbers. Fractions of per cents are dropped if less than five-tenths, and the percentage is raised to the next higher integer if the fraction is greater than five-tenths. If the fraction is exactly five-tenths, the integer is raised or lowered to make it an even number.

Converting.—Many of the figures shown in the statistical tables published herewith have been reduced to thousands of pounds or dollars. In making these conversions the largest number from which a group of items is computed is raised or lowered to the nearest thousands place. If the number ends in an even 500, the thousands integer is raised or lowered to make it an even number. The individual items are changed to conform to the total thus obtained.

CONVERSION FACTORS

It is the policy of the bureau to show the detailed catch figures of all products in pounds for the sake of uniformity and for purposes of comparison. Following such a policy presents very definite problems. In the case of fish there is little difficulty since in very rare instances are such products reported in units of measure other than pounds. For shellfish, however, the units of measure may be bushels, sacks, barrels, or thousands of shellfish, gallons of meats, etc. These many units make standardization difficult, but when coupled with the wide variation in the requirements or definition of some of these units in the various States the problem becomes even more complex.

All bivalve mollusks are reported in pounds of meats in the detailed catch tables presented in this report. In addition there is presented a supplementary table for each section on the production in bushels. These supplementary tables also give the production of certain other shellfish, such as crabs, in number.

Oysters.—Probably the greatest problem in presentation of fishery statistics in uniform units of measure is in the case of oysters. Usually the production of oysters on the Atlantic and Gulf coasts is reported to bureau agents in bushels and prior to the data shown in this report conversion from bushels to pounds of meats was effected on the basis of a uniform yield of 7 pounds of meat to the bushel. There follows a table which gives the results of a recent study of the measures used for oysters in the various States and of the average yields per bushel. This table presents the new factors that have been used in the oyster statistics given in this report. These figures apply to the year 1930 and are based on the records of oyster canneries and shucking houses. It is probable that in subsequent years there will be variations from these figures.

Measures and yields of oysters

State	Capacity of State bushel	Variation from United States standard bushel		Market oysters		Seed oysters	
		Cubic inches	Per cent	Yield per State bushel	Yield per standard bushel	Yield per State bushel	Yield per standard bushel
	Cubic inches			Pounds of meat	Pounds of meat	Pounds of meat	Pounds of meat
Massachusetts	2, 150. 4	----------	----------	8. 8	8. 8	7. 0	7. 0
Rhode Island	2, 150. 4	----------	----------	8. 0	8. 0	7. 0	7. 0
Connecticut	2, 150. 4	----------	----------	7. 5	7. 5	7. 0	7. 0
New York	2, 150. 4	----------	----------	7. 0	7. 0	7. 0	7. 0
New Jersey	2, 257. 3	+126. 9	+5. 0	8. 41	7. 96	4. 5	4. 26
Delaware	2, 257. 3	+126. 9	+5. 0	7. 5	7. 1	4. 5	4. 26
Maryland	2, 801. 5	+650. 1	+30. 2	7. 413	5. 69	5. 0	3. 84
Virginia	3, 003. 4	+853. 0	+39. 7	6. 86	4. 91	5. 0	3. 58
North Carolina	2, 801. 9	+651. 5	+30. 3	5. 36	4. 11	----------	----------
South Carolina	4, 071. 5	+1, 921. 1	+89. 3	4. 61	2. 44	----------	----------
Georgia	2, 753. 4	+603. 0	+28. 0	4. 41	3. 44	----------	----------
Florida	3, 214. 1	+1, 063. 7	+49. 4	3. 34	2. 23	----------	----------
Alabama	2, 826. 2	+675. 8	+31. 4	3. 23	2. 46	----------	----------
Mississippi	2, 826. 2	+675. 8	+31. 4	1. 91	1. 45	----------	----------
Louisiana	2, 148. 4	−2. 0	−0. 1	3. 99	3. 99	----------	----------
Texas	2, 700. 0	+549. 6	+25. 6	4. 65	3. 70	----------	----------

Other mollusks.—Whereas in previous reports certain other mollusks have been converted from bushels to pounds of meats on the basis of an average yield for the whole country, a more detailed study established the factors for the various States for 1930 which are shown in the following table.

Average yields of certain mollusks in pounds of meats per bushel

State	Clams, hard		Clams, soft		Clams, surf	Cockles	Mussels, sea	Peri-winkles	Scallops, sea and bay
	Public	Private	Public	Private					
Maine	--------	--------	17	17	--------	10	--------	--------	--------
Massachusetts	11	11	17	--------	12	18	10	18	6
Rhode Island	11	11	17	--------	--------	--------	--------	18	6
Connecticut	8	--------	15	--------	--------	--------	--------	--------	6
New York	9	10	15	15	12	--------	10	--------	6
New Jersey	8	10	12	12	12	--------	10	--------	6
Delaware	8	8	--------	--------	--------	--------	10	--------	--------
Maryland	8	--------	--------	--------	--------	--------	--------	--------	--------
Virginia	8	--------	--------	--------	--------	--------	--------	--------	6
North Carolina	10	--------	--------	--------	--------	--------	--------	--------	--------
South Carolina	10	--------	--------	--------	--------	--------	--------	--------	--------
Georgia	10	--------	--------	--------	--------	--------	--------	--------	--------
Florida	8	8	--------	--------	--------	--------	--------	--------	6

Other conversion factors.—The principal other conversion factors that have been used in this report are as follows:

Alewives	To convert number of fish to weight in pounds, multiply by 0.4.
Cod, large, salted	To convert to fresh-gutted weight, multiply by 1.90.
Cod, market, salted	To convert to fresh-gutted weight, multiply by 1.94.
Cod, scrod, salted	To convert to fresh-gutted weight, multiply by 1.98.
Cod, all sizes, fresh-gutted	To convert to round weight, multiply by 1.25.

Crustaceans:	
Crabs, soft (all States)	To convert number of crabs to weight in pounds, divide by 3.
Crabs, hard (Florida)	To convert number of crabs to weight in pounds, divide by 1.86.
Crabs, hard (Alabama)	To convert number of crabs to weight in pounds, divide by 1.715.
Crabs, hard (Mississippi)	To convert number of crabs to weight in pounds, divide by 1.715.
Crabs, hard (Louisiana)	To convert number of crabs to weight in pounds, divide by 1.86.
Crabs, hard (Texas)	To convert number of crabs to weight in pounds, divide by 1.715.
Crabs, hard (other States)	To convert number of crabs to weight in pounds, divide by 3.
Crabs, king	To convert number of crabs to weight in pounds, multiply by 4.
Crabs, rock	To convert number of crabs to weight in pounds, divide by 3.
Cusk, salted	To convert to fresh-gutted weight, multiply by 1.90.
Haddock, large, salted	To convert to fresh-gutted weight, multiply by 2.06.
Haddock, scrod, salted	To convert to fresh-gutted weight, multiply by 2.10.
Haddock, fresh-gutted, all sizes	To convert to round weight, multiply by 1.25.
Hake, large, salted	To convert to fresh-gutted weight, multiply by 1.90.
Hake, small, salted	To convert to fresh-gutted weight, multiply by 1.98.
Halibut, salted	To convert to fresh-gutted weight, multiply by 2.
Herring, salted	To convert to round weight, multiply by 1.50.
Mackerel, salted	To convert to round weight, multiply by 1.35.
Menhaden	To convert number of fish to weight in pounds, multiply by 0.6.
Oil (east coast)	To convert gallons to pounds, multiply by 7.74.
Oil (west coast)	To convert gallons to pounds, multiply by 7.5.
Pollock, salted	To convert to fresh-gutted weight, multiply by 1.90.
Sponges, dried (Florida):	
Large wool	To convert number of bunches of sponges to weight in pounds, multiply by 2.5.
Small wool	To convert number of bunches of sponges to weight in pounds, multiply by 1.
Glove	To convert number of bunches of sponges to weight in pounds, multiply by 1.5.
Grass	To convert number of bunches of sponges to weight in pounds, multiply by 2.5.
Wire	To convert number of bunches of sponges to weight in pounds, multiply by 1.5.
Yellow	To convert number of bunches of sponges to weight in pounds, multiply by 1.5.